

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 \$410 million to more than 8,827 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.



**Sustainable Agriculture
Research & Education**

www.sare.org

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

Wisconsin

Project Highlight: *Organic Control of Canada Thistle in Mulched Orchards*

Organic apple growers Chris and Juli McGuire were concerned about the proliferation of Canada thistle in their Lafayette County, Wisconsin apple orchard. The McGuires raise two acres of apples together with other fruits and market them through a community-supported agriculture (CSA) program and local grocery stores. Like most apple growers today, they raise dwarf apple trees because the compact dwarf trees are easy to work with, and they bear fruit quickly, providing a rapid return on investment.

After years of struggling with Canada thistle and watching it spread through their orchard, the McGuires received an NCR-SARE Farmer Rancher grant to trial organic methods for controlling the troublesome weed. Over two growing seasons, they reduced Canada Thistle populations from over 1,300 shoots to zero in experimental plots within their orchard. They found that hoeing and string trimming were more efficient than hand-pulling or spraying an organic herbicide.

"The key," said Chris McGuire, "is to kill the thistle shoots every three weeks repeatedly. They grow back, and then you kill them again three weeks later. We found that any method of killing the shoots is effective - cutting, pulling, or spraying with an organic herbicide. In the past, we would chop out thistle patches every 5-8 weeks, and that's not often enough. The short, three-week interval exhausts the plants and depletes their strength, gradually killing them. By the end of a single growing season, only a few straggler plants remained in our plots, and by the end of the second year, we eradicated them."

For more information on this project, see sare.org/projects, and search for project number [FNC19-1181](https://www.sare.org/projects/1181).

SARE in Wisconsin

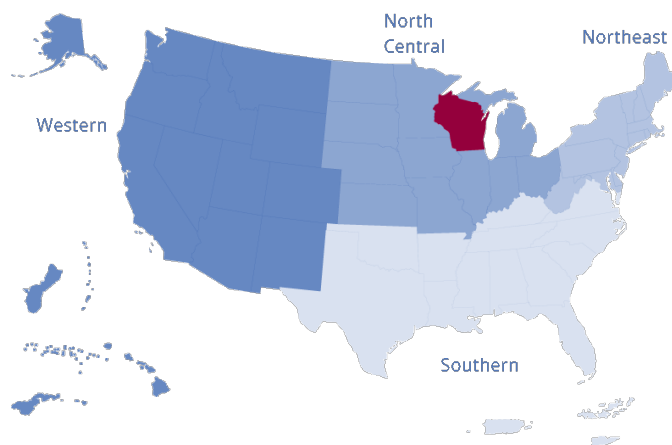
northcentral.sare.org/state-profiles/wisconsin/

\$5,457,393
in total funding

119 grant project

(since 1988)

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



SARE in Wisconsin

Grants awarded 2019-2024

Total awards: **119 grants**

- 52 Farmer/Rancher
- 11 Research and Education
- 13 Professional Development Program
- 16 On Farm Research/Partnership
- 20 Graduate Student
- 7 Youth Educator

Total funding: **\$5,457,393**

- \$794,519 Farmer/Rancher
- \$2,478,973 Research and Education
- \$1,158,087 Professional Development Program
- \$694,506 On Farm Research/Partnership
- \$297,889 Graduate Student
- \$33,419 Youth Educator

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:

21,757 farmers participated in a SARE-funded project

5,452 farmers reported a change in knowledge, awareness, skills or attitude

1,132 farmers changed a practice



Learn about local impacts at:
northcentral.sare.org/state-programs/wisconsin/

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 northcentral.sare.org/state-profiles/wisconsin/ to learn more.

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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.



AGRICULTURE PROJECTS FUNDED IN WISCONSIN

by USDA's
Sustainable Agriculture Research and Education (SARE) Program

Wisconsin has been awarded \$15,058,273 grants to support 397 projects, including but not limited to, 72 research and/or education projects, 38 professional development projects and 173 producer-led projects. Wisconsin has also received additional SARE support through multi-state projects.

RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE Support	Project Leaders
LNC24-500	Developing a Water Quality Monitoring Protocol for Cranberry Growers to Optimize Best Management Practices for Nutrient Retention	\$249,848	Steven Hall University of Wisconsin-Madison
LNC24-501	Beginner Apple School for North Central Region Growers	\$224,051	Dr. Leslie Holland UW-Madison
LNC23-477	Exploring innovations in climate resilient organic vegetable production systems through collaborative research and knowledge building	\$248,864	Dr. Rue Genger University of Wisconsin-Madison
LNC23-482	Advancing sustainable agriculture through insect farming	\$250,000	Dr. Sarah Adcock University of Wisconsin-Madison
LNC23-491	Organic Agroforestry Knowledge Diffusion: Documenting and sharing best practices on demonstration farms through on-farm education and training	\$163,750	Dr. Keefe Keeley Savanna Institute
LNC22-467	Financial Feasibility and Environmental Implications of Adopting Automatic Milking Systems by Dairy Farms in Wisconsin and Minnesota	\$249,945	Dr. Shaheer Burney University of Wisconsin - River Falls
LNC22-475	The Soil Organic Carbon network (SOCnet): Farmers building soil assets to help mitigate and adapt to climate change in the North Central US	\$249,738	Dr. Gregg Sanford UW-Madison

LNC21-456	Can cover crops pay? Unraveling yield enhancement on a wide scale to provide incentive for increased adoption.	\$249,942	Dr.James Stute Stute Farms
LNC20-436	Trap Cropping to Improve Tarnished Plant Bug Management in North Central Strawberry	\$144,096	Dr.Christelle Guédot University of Wisconsin - Madison
LNC20-440	Onto Greener Pastures with Rotational Grazing and Cover Crops	\$249,205	Dr.Heidi Peterson Sand County Foundation
LNC19-421	Building resilience to extreme rainfall events: cover crop-based reduced tillage strategies for diversified organic vegetable farms	\$199,534	Dr.Rue Genger University of Wisconsin-Madison
LNC18-414	From the Earth	\$131,676	Maria Duits Stockbridge-Munsee Community
LNC18-403	Community College Alliance for Agriculture Advancement (C2A3): Regionally-Specific and Collaborative Educational Approaches to Promote Sustainable Soil Health Practices	\$200,000	Dr.Vicki Jeppesen Northcentral Technical College
LNC17-388	Improving farmer options for sustainable and profitable direct-market tomato production and high tunnel management in the Upper Midwest	\$199,915	Dr.Julie Dawson University of Wisconsin-Madison
LNC17-389	Testing N efficient, high methionine corn hybrids with organic farmers	\$196,088	Walter Goldstein Mandaamin Institute, Inc.
LNC16-376	The Fruit and Nut Compass: Developing a Tool and Guiding Principles for Diversified Farms	\$199,246	Michael Bell Dept. of Community and Environmental Sociology, U. of Wisconsin-Madison Leah Potter-Weight Center for Integrated Agricultural Systems, UW Madison
LNC16-378	Advancing cost effective water quality improvement in the North Central Region through farmer-led engagement for prairie filter strips	\$197,678	Craig Ficenc Sand County Foundation

LNC16-382	Systems Approach to Food Waste Composting for Urban Agriculture	\$199,943	Gregory Lawless University of Wisconsin Extension
LNC16-383	Grazing management of "Kernza" Intermediate wheatgrass as a dual purpose crop	\$200,000	Valentin Picasso University of Wisconsin - Madison
LNC15-367	Commercialization of Hazelnuts for Growers in the Upper Midwest	\$198,569	Jason Fischbach UW-Madison, Division of Extension
LNC14-357	Tomato Variety Trials for Flavor, Quality and Agronomic Performance, to Increase High-value Direct Marketing Opportunities for Farmers and On-farm Trialing Capacity	\$199,866	Dr. Julie Dawson University of Wisconsin-Madison
LNC14-358	Building Resilience and Flexibility into Midwest Organic Potato Production: Participatory Breeding and Seed Potato Production	\$199,106	Dr. Rue Genger University of Wisconsin-Madison
LNC13-348	Protecting Diversified, Direct-Market, and Value-Added Operations with Smart Business Structures, Written Agreements, and Regulatory Compliance	\$158,660	Rachel Armstrong Farm Commons
LNC13-349	High Quality Beverage Raw Materials for the Craft Brewing Industry	\$196,953	Carl Duley UW-Extension
LNC12-339	Selecting for Resilience in Low-input Potato Cropping Systems: Connecting Farmers and Breeders with the Genetic Resources of an Underutilized Potato Germplasm Collection	\$190,512	Dr. Amy Charkowski University of Wisconsin-Madison
LNC12-341	Development of Organic Nutrient Management Recommendations for High Tunnel Raspberry Production	\$49,388	Dr. Rebecca Harbut University of Wisconsin Madison Beth Ann Workmaster University of Wisconsin-Madison
LNC11-329	Development of Small-Scale Storage Facilities for Winter Storage of Fresh Produce	\$108,829	Scott Sanford University of Wisconsin-Madison
LNC08-299	Improving Forage Production and Quality with Native Legumes in Grazed Warm-Season Grass Stands	\$149,456	Randall Jackson University of Wisconsin-Madison Craig Maier UW-Madison Dan Undersander University of Wisconsin-Madison

LNC08-303	Working with Farmers, Dairy Processors and Chefs to Build a Market for Grass-Fed Milk	\$148,133	Laura Paine University of Wisconsin-Madison
LNC07-279	Grass-legume mixtures for improved persistence, biomass production, and intake by dairy cattle on pasture	\$140,623	Ken Albrecht University of Wisconsin-Madison
LNC07-287	Does Manure Treatment Affect Soil Nitrogen Availability?	\$76,034	Christopher Baxter University of Wisconsin - Platteville
LNC07-290	Effective Outreach for a new Wisconsin Agriculture: A Social Marketing Approach to the Environmental Management Needs of Hispanic and Women Farmers	\$129,997	Dr.Sharon Lezberg Environmental Resources Center
LNC06-269	Buy Fresh Buy Local: Building Marketing Opportunities for Local Foods in Restaurants and Institutional Food Services	\$108,750	Rachel Armstrong REAP Food Group
LNC06-270	Biofumigation as an IPM Strategy	\$116,972	Dr.Ann MacGuidwin University of Wisconsin
LNC05-254	The Wisconsin School for Beginning Dairy Farmers Program - the First Ten Years: A Graduate Follow-up Survey and Beginning Dairy Farmer Case Studies	\$55,700	Richard Cates UW-Madison Center for Integrated Ag. Systems
LNC05-258	Soil Fertility Strategies on Organic Vegetable Farms	\$72,056	John Hendrickson CIAS, UW-Madison
LNC05-262	Revise/reprint "Biological Control of Insects and Mites"	\$87,558	Michelle Miller University of WI - CIAS
LNC04-239	An Analysis of Environmental Management Approaches with Six Midwestern Dairy Farms: Informing Progress Toward a Sustainable Agriculture	\$148,851	Mriill Ingram Environmental Resources Center, UW-Madison
LNC04-247	Wisconsin Homegrown Lunch II: Maximizing School Food Service	\$122,225	Jack Kloppenburg University of Wisconsin - Madison

LNC03-227	Towards a Sustainable Agriculture: An Updated Curriculum for High School Classes	\$83,671	Douglas Maxwell University of Wisconsin
LNC03-237	Nutrient Management Planning for Dairy Farms Practicing Management Intensive Rotational Grazing	\$138,560	Dennis Cosgrove University of Wisconsin-River Falls
LNC02-212	Wisconsin Homegrown Lunch: Piloting a Midwestern Model for Farm-to-School Initiatives	\$98,970	Jack Kloppenburg University of Wisconsin - Madison
LNC01-181	Does Management Intensive Grazing Protect Groundwater by Denitrification?	\$90,340	Nancy Turyk University of Wisconsin Stevens Point
LNC00-172	Bone Characteristics of Dairy Cows Fed Diets Containing Different Amounts of Phosphorus	\$33,500	Larry Satter
LNC00-176	Developing Consumer Driven Markets for Southern Wisconsin Farmers	\$84,951	Greg Lawless University of Wisconsin Center for Cooperatives
LNC00-180	Professional Development for the Adoption of Sustainable Agriculture on Rented Land	\$43,483	Michael Bell Dept. of Community and Environmental Sociology, U. of Wisconsin-Madison
LNC99-150.1	Development of Sustainable Practices for Integrated Management of Apple Diseases	\$65,837	John Andrews University of Wisconsin Madison
LNC99-157	Institutional Markets for Sustainable Agriculture Products	\$61,875	John Hendrickson CIAS, UW-Madison George Stevenson UW-Madison, Center for Integrated Ag. Systems
LNC99-158	Developing Whole-Farm Nutrient Management	\$97,000	John Hall Michael Fields Ag Institute
LNC98-130	Educating Consumers About Local, Sustainable Produced Meat	\$23,200	Derek Vernon Lee Wisconsin Pasturelands (formerly Healthy Meats!) Margaret Krome Michael Fields Agricultural Institute
LNP98-001	Workshops on Using Federal Resources to Support Sustainable Agriculture	\$5,080	Margaret Krome Michael Fields Agricultural Institute

LNC97-115	Training and Transitioning New Farmers: A Practical Experiment in Farmer Self-Development and Institutional Reinvention	\$29,000	Richard Klemme University of Wisconsin, Center for Integrated Agricultural Systems (CIAS)
LNC97-116	Using Small Grain Cover Crop Alternatives to Diversify Crop Rotations	\$92,300	Dr. Joshua Posner Agronomy Department, University of Wisconsin
LNC97-121	Evaluating Pasture-Based Poultry Systems: Potential Contribution to Farm Diversification, Human Nutrition, and Marketing Alternatives	\$89,348	George Stevenson UW-Madison, Center for Integrated Ag. Systems
LNC97-124	Development of Sustainable Practices for Integrated Management of Apple Diseases	\$92,892	John Andrews University of Wisconsin Madison
LNC95-061.1	Sustainable Community Values Project, Phase 2: Community Supported Agriculture and Quality of Life	\$55,000	Verna Kragnes Philadelphia Community Farm Inc
LNC95-086	Reduced Chemical Inputs in Alternative Potato Farming Systems	\$64,800	Douglas Rouse University of Wisconsin
LNC95-088	Training and Transitioning New Farmers: A Practical Experiment in Farmer Self-Development and Institutional Reinvention	\$85,800	George Stevenson UW-Madison, Center for Integrated Ag. Systems
LNC95-089	Impacts of Intensive Rotational Grazing on Stream Ecology and Water Quality	\$43,488	Laura Paine University of Wisconsin-Madison Dan Undersander University of Wisconsin-Madison
LNP95-002	ASA Symposium: Integrating Production and Marketing Research for Sustainability	\$4,000	Dr. James Worstell Delta Land & Community
LNC93-061	Sustainable Community Values Project	\$101,000	Verna Kragnes Philadelphia Community Farm Inc
LNC93-062	A Biological Control Network for the Sweet Clover Weevil and Clover Root Curculio	\$58,551	David Hogg University of Wisconsin
LNC92-053	Rotational Grazing Systems for Wisconsin and Minnesota Dairy Farmers: An Evaluation of Animal and Forage Performance and Whole-Farm Socio-Economic Analyses	\$108,000	Denny Caneff Wisconsin Rural Development Center

LNC91-012.2	Whole-Farm Economic Analyses of Medium-Sized, Single-Family Dairy Farms that Differ in Their use of Purchased Chemical Inputs	\$68,500	Jess Ennis Wisconsin Rural Development Center
LNC91-031	Compost Extracts and the Biological Control of Foliar Plant Disease	\$70,000	John Andrews University of Wisconsin Madison
LNC91-035	Improving the Ecology of Corn Production and Testing Perennial Alternatives to Silage Corn	\$92,000	Walter Goldstein Michael Fields Agricultural Institute
LNC90-028	The Krusenbaum Farm: A Case Study and Model in the Establishment of an Organic Dairy Farm	\$70,748	Dr.Joshua Posner Agronomy Department, University of Wisconsin
LNC89-012.1	Whole-Farm Economics and Nitrogen Budget Analysis on Low-Chemical and Conventional Wisconsin Farms	\$62,000	Margaret Krome Wisconsin Rural Development Center
LNC89-021.1	Utilization of the Allelopathic Properties of Winter Rye as a Method of Weed Control in Soybean Production	\$29,000	Ken McNamara Rodale Institute
LNC88-006	Development of Organic N Availability Functions for a Nitrogen Management Model	\$14,009	Larry Bundy University of Wisconsin
LNC88-012	A Statewide Collaborative Sustainable Agriculture and Outlook Project	\$25,000	Margaret Krome Wisconsin Rural Development Center
LNC88-021	Utilization of the Allelopathic Properties of Winter Rye as a Method of Weed Control in Soybean Production	\$31,150	Ken McNamara Rodale Institute

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE Support	Project Leaders
ENC24-239	Honoring Our Elders	\$118,629	Alpa Goswami Marblese
ENC24-241	Farms to Institutions Conference	\$119,102	Dr.Philip Kauth, PhD REAP Food Group
ENC23-230	OGRAIN Organic Grain Farm Financial Toolbox for Agriculture Service Providers	\$121,146	Dr.Erin Silva University of Wisconsin-Madison

ENC22-209	Educational Methods for Farmer Self-Organizing	\$88,978	Lori Stern Marbleseed
ENC22-214	Bridging the gap: Building skills in diversified forage chains	\$89,974	Patty Laskowski Morren GrassWorks, Inc.
ENC21-198	Empowering conservation professionals to promote climate resilience through carbon farm planning	\$78,298	Christina Anderson WI Land+Water
ENC21-206	Closing the Financial Information Gap in Conservation Agriculture	\$89,185	Jenny Seifert University of Wisconsin-Madison Division of Extension
ENC20-187	Teaching Seasonally-Based and Culturally-Centered Sustainable Agriculture Curriculum to Tribal Educators	\$90,000	Richard Monette University of Wisconsin-Madison
ENC20-195	Enhancing the Sustainability of Dairy Grazing Apprenticeship Through Educator and Farmer Mentor Professional Development	\$84,750	Angela Sullivan Dairy Grazing Apprenticeship
ENC19-179	Training on the Ground Support for Transitioning and Organic Farmers in Minnesota and Wisconsin	\$86,678	Lori Stern Marbleseed
ENC19-177	Modernizing grazing resources for the next generation of agriculture and natural resource professionals	\$87,977	Dr.Jill Hapner GrassWorks, Inc.
ENC19-175	Organic Ag. Academy	\$13,794	Valerie Dantoin Full Circle Farm
ENC19-184	OGRAIN Virtual Field Day Toolbox for Agriculture Service Providers	\$89,576	Dr.Erin Silva University of Wisconsin-Madison
ENC18-166	An Introductory Virtual Training Curriculum for Crop Advisers and Extension Educators Working with Transitioning Organic Grain Crop Producers	\$68,437	Dr.Christopher Boomsma American Society of Agronomy
ENC18-174	Water conservation practices for sustainable food production systems: developing an on-line, participatory training vehicle for ag-professional to enhance interaction with farmers	\$74,959	Dr.Yi Wang University of Wisconsin - Madison

ENC17-157	Promoting grazing as a sustainable farming method to agency staff in Wisconsin	\$74,610	Dr.Jill Hapner GrassWorks, Inc.
ENC17-162	Enhancing the Quality of Work-based Beginning Farmer Training Programs Through Trainer Professional Development	\$74,107	Laura Paine University of Wisconsin-Madison
ENC17-163	Sustainable Agronomy	\$68,970	Luther Smith American Society of Agronomy
ENC15-148	Sharing Soil Health Knowledge and Practice through Grazing Networks	\$74,363	Dr.Jill Hapner GrassWorks, Inc.
ENC15-149	Mainstreaming Cover Crops: Training Opportunities for Crop Consultants and Extension Educators	\$74,994	Luther Smith American Society of Agronomy
ENC15-150	Increasing the Capacity of Agency Staff and Agricultural Professionals to Increase Farmer Adoption of Cover Crops in Wisconsin	\$74,602	Dr.James Stute Michael Fields Agricultural Institute
ENC12-128	Sustainable Agricultural Workshop Series for Tribal Educators	\$75,000	Dan Cornelius Intertribal Agriculture Council
ENC10-119	Making pasture walks more than just a walk in the pasture	\$72,060	juli speck DATCP Laura Paine University of Wisconsin-Madison
ENC09-111	Pollinator Conservation Training	\$72,168	Eric Mader The Xerces Society
ENC07-098	Greenhouse Energy Conservation Strategies and Alternative Fuels	\$33,432	Scott Sanford University of Wisconsin-Madison
ENC07-100	Biofuels and community participation: Engaging process in the emerging bioeconomy	\$22,709	Dr.Sharon Lezberg Environmental Resources Center

ENC05-087	Building a Diverse Food Web: Professional Development Training in Sustainable Community Food Systems with a focus on Appropriate Technologies for Socially Disadvantaged Farmers and Small Scale producers in Rural and Urban Communities	\$75,000	Will Allen Growing Power, Inc.
EW05-00G	Elevating Examples of Excellence: A professional development and outreach model	\$5,000	Jeanne Merrill Michael Fields Agricultural Institute
ENC04-078	Wisconsin's Eco-apple Sustainable Apple Production, Education - Outreach: Bridging the Gap	\$14,877	Michelle Miller University of WI - CIAS
ENC03-071	Building with Community: Professional Development Training in Sustainable Food Systems	\$90,000	Will Allen Growing Power, Inc.
ENC02-066	Organic Farming Education for Agricultural Professionals	\$88,170	Faye Jones Midwest Organic and Sustainable Education Service
ENC01-057	Training Tomorrow's Trainers - A Conference for Students of Sustainable Agriculture	\$52,928	Chad Kruger Consortium for Sustainable Agriculture Research &
ENC01-058	Crossroads Center - Partners in "Value-Added" Entrepreneurship	\$44,900	Karla Miller West CAP
ENC98-036.1	Educate the Agricultural Educators and Bankers on Profitability, Lifestyle and Environmental Benefits of MIG for the Livestock Farmers of Central Wisconsin	\$12,500	Paul Daigle Central Wisconsin River Graziers Network
ENC97-023	Advanced Organic and Biodynamic Vegetable Production Workshop	\$32,675	Gail Kahovic Michael Fields Agricultural Institute
ENC97-025	Grazing Education for Educators and Bankers	\$12,500	Paul Daigle Central Wisconsin River Graziers Network
ENC96-018	Organic Production and Marketing Curriculum for Extension Professional Development (Merits and Adoptability of Organic Agriculture)	\$76,120	Jim Arts Cooperative Development Services Fund

ENC95-008	Quality of Life Module for Extension Professional Development	\$38,580	Elizabeth Bird Consortium for Sustainable Agriculture Research and Education (CSARE)
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FARMER/RANCHER GRANTS

Project #	Project Title	SARE Support	Project Leaders
FNC24-1403	Demonstrate the Impact of Multi-Species Grazing with Virtual Fencing as Ecologically Beneficial Vegetation Management in Critical Watersheds	\$15,000	Stephanie Bowers Glorious Goat Ranch, LLC
FNC24-1408	Expanding On-Farm Propagation of Hazelnuts in the Upper Midwest Through Seed-Graft Layering	\$25,221	Colin Cureton Midwest Hazelnuts, LLC
FNC24-1412	Indigenous Food and Agriculture Apprenticeship Project	\$30,000	Jennifer Falck
FNC24-1416	Automating grain feeding in mobile pastured poultry coops.	\$29,956	Michael Gutschenritter Three Brothers Farm LLC
FNC24-1432	Strengthening Black farming and food businesses in Dane County	\$16,069	Donale Richards Madtown Food Services, LLC
FNC24-1435	Seeds of Sustainability: Cultivating the Future - A Comprehensive Journey into the First Year Farming, from Business Planning to Challenging Stereotyp	\$13,160	Gabriel Smith Loading Ranch
FNC24-1436	Up or down: Should row cleaners be used when planting green into cereal rye?	\$13,520	Dr. James Stute Stute Farms
FNC24-1437	Hybrid Hickory Variety Recommendations and Propagation Trials	\$15,000	Alex Tanke Dispersion Farms
FNC24-1441	Sustainable Greenhouse Heating	\$6,500	Debra Weiss Ethereal Gardens
FNC23-1362	Pull-Type Hazelnut Combine Development	\$30,000	David Bohnhoff Happy Roots Farm
FNC23-1363	Hybrid Electric Tractor Energy - Saving Configuration Conversion	\$14,957	Robert Braun Pigeon River Farm

FNC23-1376	Grazing Planted Prairie in WI: Pollinator and Pasture Value	\$8,730	Ryan Heinen Gwenyn Hill Farm
FNC23-1380	Evaluating a single-pass alfalfa-corn silage intercrop to enhance forage production, profitability, and soil and water health	\$14,355	Adam Hurtgen Hurtgenlea Ltd.
FNC23-1381	Sustainable Biofungicide for Organic Farms	\$14,956	CHRIS KEARNS Cannivera
FNC23-1383	Mooningwanekaaning Food Sovereignty and Traditional Agriculture Grant	\$30,000	Dr.Winona LaDuke Winonas Hemp
FNC23-1393	Comparing strategies and evaluating the economics of alternative, non-conventional approaches to small scale pumpkin growing in the Midwest.	\$14,999	Dr.Riley Sowle Oconto Riviera
FNC23-1399	Queen Production Viability to generate Honeybee nucleus colonies for overwintering success in the Midwest	\$15,000	Mitchel Wayne Wayne Honey Farm
FNC22-1322	60" Corn	\$29,626	Andrew DeVries Rose 23 Cattle Co
FNC22-1335	Mushroom farming without single-use plastic: A simple, low-tech method for family farmers	\$3,059	Maks Kopish Maks' Mushrooms
FNC22-1341	Managing Cropload with the Pollen Tube Growth Model In Organic Apple Orchards	\$14,756	Christopher McGuire Blue Roof Orchard (formerly Two Onion Farm)
FNC22-1350	Community Gardening with Chickens & Littles	\$16,186	Scarlett Salamone Loveland Acres Farm
FNC22-1351	Developing standardized procedures to increase production of saleable yellow perch fingerlings year-round	\$18,651	Annie Schmitz Woods and Waters Fish Farm Paula Schultz The Farmory
FNC21-1265	clipper/drag/crimper	\$3,388	TOM CROFTON SKYVIEW FARM
FNC21-1266	Supporting New Farmers Through Mentoring and Membership in a Cooperative	\$25,800	Valerie Dantoin Full Circle Farm

FNC21-1272	Water and Soil Quality Composting Design Research Initiative	\$9,000	Heather Gayton ZanBria Artisan Farms LLC
FNC21-1274	Integrated Pest Management Research on Great Lakes Hemp Production	\$9,000	Marcus Grignon Indigenous Think Tank LLC
FNC21-1275	Design and build a sliding electric fence system for pastured poultry	\$24,498	Michael Gutschenritter Three Brothers Farm LLC
FNC21-1280	Hot Box Compost: Modular Composting System that Heats, Waters, and Fertilizes Grow Bed for Off-Season Production	\$13,747	Scott Johnson Low Technology Institute
FNC21-1282	Resources & Recipes to Support Farmers to Diversify Income through Value-Added Bakery Product Sales	\$16,859	Lisa Kivirist Inn Serendipity Farm and B&B
FNC21-1286	Developing Affordable Seed Corn for On-Farm Production and Sales	\$27,000	Frank Kutka Z Mojego Ogrodu
FNC21-1290	Organic Control of Anthracnose Leaf Spot in Gooseberry	\$9,000	Christopher McGuire Blue Roof Orchard (formerly Two Onion Farm)
FNC21-1294	Implementing Organic practices in Modern Apple Growing	\$8,945	Gabe Olson-Jensen River Falls Research Orchard
FNC21-1301	Assessing the potential of aqweed harvest as a locally-produced poultry feed	\$8,415	Shelly Rothman Good Trouble Grove, Foxhead Regenerative Agriculture Project
FNC21-1306	Testing Virtual Fence Technology in an Upper Midwestern Goat Grazing Operation	\$8,910	Allysse Sorensen The Munch Bunch LLC
FNC21-1308	Can T-banding gypsum at planting prevent soil crusting and improve emergence in no-till corn and soybean?	\$8,982	Dr. James Stute Stute Farms
FNC21-1313	The Oneida Composting Project	\$8,718	William VerVoort Oneida Nation
FNC21-1316	Indigenous (Heirloom) Corn with Reduced Tillage and Cover Cropping Systems	\$17,884	Lea Zeise United South and Eastern Tribes

FNC20-1204	Intensive No-Till Vegetable Soil Preparation in Organic Systems	\$8,005	Andrew Adamski Full Circle Farm
FNC20-1205	A Single-Row Mechanical Nut Planter for Nut and Hardwood Plantations	\$8,892	Zachary Alexander Green Hills LLC
FNC20-1206	Using Actively Aerated Compost Tea in Organic Vegetable and Fruit Production	\$17,262	Stephanie J. Bartel Old Plank Farm LLC
FNC20-1208	Quantifying the capacity of Wine Cap mushroom cultivation to enhance soil health, improve vegetable crop value and increase farmer profitability	\$9,000	Lindsey Bender Field & Forest Products
FNC20-1210	Curriculum introducing drones as cost effective tools for improved efficiency in ecologically and socially responsible management of livestock grazing	\$8,980	Robert Braun Pigeon River Farm
FNC20-1212	Traditional Tribal Growing Practices for Integrated Pest Management	\$27,000	Daniel Cornelius Member of Oneida Nation of Wisconsin
FNC20-1238	Organic Apple Production In High Tunnels	\$9,000	Christopher McGuire Blue Roof Orchard (formerly Two Onion Farm)
FNC19-1166	Developing a Production and Distribution Mechanism for Feed Trained Perch Fingerlings for Use in Aquaculture Grow-out Facilities	\$26,993	Tami Hallam Scenic Valley Perch
FNC19-1154	Susceptibility of cider apple varieties to foliar-feeding insects	\$8,818	Galen Bergquist University of Minnesota - Twin Cities
FNC19-1172	Correlating Land Management to Soil Health, Water Quality, and Nutrition	\$6,137	Edward Kaderly Edward S. Kaderly Farm
FNC19-1179	Complete Guide to Lard Soapmaking for the Small Pork Producer	\$3,690	Emily Martorano Hazel Hill Farm
FNC19-1181	Organic Control of Canada Thistle in Mulched Orchards	\$8,920	Christopher McGuire Blue Roof Orchard (formerly Two Onion Farm)

FNC19-1189	Expanding Markets for Lesser Known Perennial Crops Through the Craft Beverage Industry	\$27,000	Matthew Raboin Brix Cider LLC
FNC19-1190	Should I Start a CSA Farm?: An Educational Video Series for Current & Aspiring CSA Farmers	\$26,185	Lauren Rudersdorf Raleigh's Hillside Farm
FNC19-1201	Using Micro-Nutrients to Control Shattering of La Crescent Grapes (Cold-Climate)	\$8,790	David Danzinger Danzinger Vineyards
FNC18-1112	Pasture versus invasives: competing in newly-disturbed soil under a newly-opened canopy transitioning to silvopasture	\$5,350	Jess Bernstein Wonderfarm
FNC18-1121	Expanding the Understanding and Adoption of Composting Bedded Pack Manure to Reduce Manure Applications on Frozen and Snow Covered Fields around the Yahara Watershed	\$22,500	Jeff Endres Endres Berryridge Farms, LLC
FNC18-1126	Viability of Using Freeze Dried Herbs to Improve the Quality and Performance of Value-Added Herbal Products	\$6,929	Sheri Howard Frozen In Thyme Herbs
FNC18-1128	Comparison of Methods for Growing Potatoes on Market Farms	\$13,242	Scott Johnson Low Technology Institute
FNC18-1130	Increasing Value-added Product Sales through Cottage Food Bakery Products Produced in Home Kitchens	\$22,333	Lisa Kivirist Inn Serendipity Farm and B&B
FNC18-1132	Developing a "Cold Banking" system for perch which would provide an available supply of fish for indoor grow-out facilities throughout winter.	\$22,404	Brad La Fave Black Dog Fish Farm LLC
FNC18-1136	Organic Methods to Promote Branching in Nursery Apple	\$6,979	Christopher McGuire Blue Roof Orchard (formerly Two Onion Farm)
FNC18-1140	Rotation of Animals Through an Apple Orchard For Pest and Disease Suppression, Soil Improvement, and the Addition of Viable Revenue Streams	\$7,303	Lisa Rettinger Grandview Orchard & Nursery Stock

FNC17-1070	Cultivating the Wine Cap Mushroom While Building Soil Health and Suppressing Plant Disease – an Innovative and Economical Approach to Two Common Agricultural Problems	\$7,500	Lindsey Bender Field & Forest Products
FNC17-1072	Evaluating Management Systems and Exploring Marketing Outlets for Guinea Fowl as a Healthier Alternative to Chicken and Duck Meat and Eggs	\$7,476	Nicholas Bryant Bryant Family Farms LLC
FNC17-1084	Using USDA Local Foodsystems Toolkit to Assess and Implement the Best Cooperative Direct Marketing for an Existing Local Food Group to Increase Local Sales	\$21,850	Annelie Livingston-Anderson Good Turn Farm
FNC17-1091	Local Linen: Exploring the Feasibility of Small-scale Mechanized Processing of Fiber Flax for Linen Production in Minnesota and Wisconsin	\$14,587	Andrea Myklebust Mountain Heart Farm Robbi Bannen A to Z Produce and Bakery
FNC17-1094	Developing a Woman Farmer Butchering and Meat Processing Cooperative plan for Southern Wisconsin	\$20,175	April Prusia Dorothy's Range LLC
FNC17-1096	Growing Grasses and Legumes under Spruce/White Pine for Grazing Cows in a Silvopasture Setting	\$7,500	Steve Rosenow Rosenow Farm
FNC17-1097	Grain Free Pasture Egg Production	\$6,500	Charles Self Grassway Organics
FNC17-1105	Increasing Farm Income and Diversification By Converting Abandoned Manure Pits Into Aquaculture Production Facilities	\$20,406	William West Blue Iris Fish Farm
FNC17-1109	Topographical Contour Measurement and Water Management Earthworks for Ecologically Restorative Edible Silvopasture Planting	\$7,403	Jess Bernstein Wonderfarm

FNC16-1034	Remodel Operating Cold Water Trout Farm into Combination Cold Water/Cool Water Fish Farm, While Diversifying Production and Maintaining a Reduced Ecological and Energy Footprint	\$15,000	Michael Foster Wilderness Springs
FNC16-1035	Investigating the Relative Effectiveness of Seedlings versus Direct Seeding Pumpkins for Earliest and Biggest Yield on a Community Farm	\$7,500	Dr.Katie Hancock Cable Community Farm
FNC16-1046	Traditional Fertilizer, Modern Applications for Iroquois White Corn	\$17,637	Laura Manthe Standing Stone Farm
FNC16-1052	Enhancing Economic Stability by Building Financial Resilience: A Model for Collaborative Learning Among Beginning Farmers in Southwest Wisconsin	\$18,410	Marie Raboin Brix Cider Company
FNC16-1053	Apples for Artisanal Cider: Understanding the Characteristics of Single Varietals	\$7,500	Matthew Raboin Brix Cider LLC
FNC16-1064	Developing a Self Funded Aquaculture Program for High Schools	\$20,315	William West Blue Iris Fish Farm
FNC15-1004	Commercial Sustainable Micro-green Production in a Northern Climate	\$7,500	Janet Marsh Morning Sun Farms
FNC15-1021	Comparison of Shiitake yield on Red Maple (Acer rubrum) on timing of cut and rate of wood moisture loss prior to inoculation	\$14,791	Ingrid West Misty Dawn Farm
FNC15-986	Immigrant Farmer High Tunnel Project	\$20,999	Robin Major Shared Ground Farmers' Cooperative
FNC15-989	Vacant lots to Abundant Farms: Water collecting, composting, and seed saving to turn vacant lots into self-sustaining community gardens and businesses.	\$7,129	Lucas Dixon The Good Stuff Gardens

FNC15-991	Evaluating the Environmental Benefits and Economic Opportunities of In-Vessel Composting Solid Dairy Manure	\$22,500	Andrew R. Skwor, PE, CPESC MSA Professional Services, Inc.
FNC15-992	Rushing Waters Aquaponics Feasibility Study	\$15,000	Jeremiah Robinson Frosty Fish
FNC15-998	Increasing Value-Added Product Sales through Improved Labeling - Packaging	\$5,371	Lisa Kivirist Inn Serendipity Farm and B&B
FNC14-949	Leveraging the Power of Social Media and Mobile Point of Sales Systems at the Oshkosh Farmers Market	\$7,154	Elise Hallock CiderHill Farm LLC
FNC14-953	Constructing a Goat Proof Natural Hedge Fence	\$1,370	Christine Kocourek Floppy Ear Farm, LLC
FNC14-955	Increase Sustainability on Fish Farms with the Development of Value Added Products from Fish and Fish Waste	\$13,746	Roy Landskron Bluegill Heaven Jerome Peplinski Peplinski Aquaculture
FNC14-966	Portable Cold-weather Goat Shelter Development and Testing	\$7,494	Cherrie Nolden 1dr Acres Farm
FNC14-968	Determine the Feasibility of Growing and Processing Organic Grains for the Needy of the Dane County, Wisconsin Area	\$7,460	Thomas Parslow Madison Area Food Pantry Gardens
FNC14-979	Evaluation of Oilseed Radish Biomass Management As A Control Strategy For Pests In No-Till Corn	\$7,354	Dr. James Stute Stute Farms
FNC13-900	Quality Conventional and Organic Malting Barley Production in Wisconsin	\$21,996	Joe Bragger Bragger Family Dairy
FNC13-919	Keeping Traditions Alive: Creating Food Security in Northwest Wisconsin's Tribal Communities	\$21,551	Amber Marlow Lac Courte Oreilles Ojibwa Community College
FNC13-922	Home Heating with Horse Manure	\$2,219	Eric Meulemans Rigantona Fields

FNC13-932	Reducing cold-climate grape establishment costs through the development of a grape propagation system	\$7,500	Matthew Skaletski Holy Grail Vineyard
FNC12-854	Economic Comparison of Mechanical and Hand Pruning of Northern Cold Climate Grape Hybrids in Small Wisconsin Vineyards	\$21,968	David Danzinger Danzinger Vineyards
FNC12-857	Developing Round Bale Systems to Mulch Vegetable Transplants with Switch Grass	\$6,854	Tony Ends Scotch Hill Farm
FNC12-864	Direct Marketing Non-Traditional Perennial Berry Varieties: Expanding Eater Preferences and Grower Connections	\$17,530	Clare Hintz Elsewhere Farm
FNC12-872	Remote Monitoring of Beehives to Improve Management and Reduce Travel Costs	\$6,400	Matthew LaForge Golden Hills, LLC
FNC12-879	Maypops, a New Fruit Crop in Wisconsin	\$7,246	Christopher McGuire Blue Roof Orchard (formerly Two Onion Farm)
FNC12-881	Feasibility of Growing Green Fodder in a Portable Greenhouse for Sheep	\$15,000	Judith Moses Producer
FNC12-885	Ecological Forestry Alternatives to Clearcutting in Aspen Forests	\$22,141	Charly Ray Northern Ecosystem Services
FNC12-889	Summer on the Farm	\$4,439	Ana Skemp Deep Roots Community Farm
FNC10-801	The Wisconsin Hops Harvest Partnership: Demonstrating the feasibility of using small-scale, cooperative harvesting systems to enable sustainable commercial hops production in Wisconsin	\$11,784	Kory Stalsberg Hide-Away Hops Farm
FNC10-823	Evaluating 2nd Generation Hybrid Hazelnuts Through On-Farm Production Trials	\$15,392	Harold Vanselow Chequamegon Food Coop
FNC10-824	The Coney Garth: Effective Management of Rabbit Breeding Does on Pasture	\$6,000	Julie Engel n/a

FNC09-748	Fostering Local Sustainability: Establishing Commercial Hops for Upper-Midwest Craft Brewers	\$5,993	Matt Sweeny
FNC09-763	Filling the Niche and Closing the Loop: Developing a Wildflower Nursery for the Restoration Market Using Forest Biomass By-Products as the Garden Foundation	\$5,430	Cindy Ramseyer
FNC09-768	Thewis Ridge Currant Company, LLC - Interaction Between Yields and Mulch	\$6,000	Ann Thewis
FNC09-770	Ancient Grains Step into the Future	\$18,000	Maurice Smith
FNC09-771	Alternative Broiler Breeds in Three Different pastured Poultry Systems	\$17,938	Kim Cassano
FNC08-706	Optimization of corn production following legume green manures	\$5,246	Dr. James Stute Stute Farms
FNC08-710	Low input pasture renovation through multi species intensive grazing	\$5,431	Jane Hansen
FNC08-712	Developing Harvest Task Checklists to Assist Farmers in Managing Harvest Crews	\$4,109	Claire Strader Troy Community Farm
FNC08-718	Assessing the Sustainability of Growing Non-traditional Fruit Tree Crops in the Upper Midwest: A collaborative agro-forestry approach	\$6,000	Erin Schneider Hilltop Community Farm LLC
FNC08-721	Re-establishing the Jerusalem Artichoke, a native plant of North America	\$3,737	Yvonne Massey Goats and Gardens Farm
FNC08-729	Perfecting the day-range pastured-poultry system through on-farm replicated feeding trials	\$6,209	Melissa Fischbach Pasture Perfect, LLC
FNC08-731	Study to Reduce Parasitic Infestations of Yellow Perch in Flow-Through Outdoor Growout Systems	\$6,000	William West Blue Iris Fish Farm

FNC08-737	Eliminating Invasive Buckthorn With Goats, An Ecological and Habitat Restoration Study	\$1,873	Kim Hunter
FNC08-739	Seed Salad Mix for Planned Paddock Renovation	\$1,064	Gene Schriefer
FNC08-742	Comparing Prairie Grass - Small Grain Straw for Mulching Vegetable Crops	\$2,108	Tony Ends Scotch Hill Farm
FNC07-674	It takes a Village to Grow An Eco-Apple: A Program for the Targeted and Neighborly Removal of Abandoned Apple Orchards in the Fruit Growing Region of Bayfield County, WI.	\$12,890	Eric Carlson Blue Vista Farm
FNC07-681	The Viability of Growing Organic Medicinal Herbs as Alternative Cash Crops for Wisconsin Farmers	\$5,747	Brian Fontaine
FNC07-691	Slowing the Flow: A Research Trial to Evaluate the Use of Winter Rye as a Cover Crop, Green Chop Forage, and Nurse Crop in the Lake Superior Watershed of Wisconsin.	\$5,321	Jerry Richardson
FNC07-697	Small Scale On-Farm Biodiesel Production Utilizing By-Product as On-Farm Feed Supply	\$10,410	Chris Ellis
FNC06-626	Evaluation of Annual Legumes as Alternatives to Red Clover for Use as Cover Crops	\$4,793	Dr. James Stute Stute Farms
FNC06-633	Evaluating the Effectiveness of Meeting Seasonal Labor Demands by Integrating a Farm Internship Program	\$5,905	Heather Smith
FNC05-567	Flame Cultivation on Row Crops	\$4,877	Daniel Roberts
FNC05-584	Design and Pilot a State Approved Mobile Slaughter Trailer for Halal Custom Slaughter	\$17,655	Larry Jacoby
FNC05-585	Comparison Study of the Supplementation of Meat Kids on Managed Pasture	\$5,924	Judith Moses Producer

FNC04-531	Developing the Upper Mississippi River Valley's Untapped Resource- Organic Maple Syrup	\$13,800	Eric Meyer Organic Maple Cooperative
FNC04-535	Establishing a Wisconsin Hatchery to Produce and Sell Organically Raised Pastured Poultry Chicks	\$5,980	Julia Maro Coon Creek Family Farm
FNC04-541	The Bad River Orchard Project	\$3,302	Rebecca Lemieux
FNC03-451	Renovating Pastures with Outwintering and Fallowing	\$8,488	Bert Paris
FNC03-467	Microbial Inoculant Treatments as an Alternative Spray for Disease Control that Reduces the Toxicity and Use of Copper in Organic and Sustainable Viticulture	\$17,102	Patricia Iubelt Maple Ridge Vineyards
FNC03-485	Northern Meadows Cheese Quality Improvement	\$13,960	Valerie Adamski
FNC03-491	Marketing to Culturally Diverse Families and Communities	\$17,390	Larry Jacoby
FNC03-493	Promote Sustainable Forestry	\$9,994	Charly Ray Northern Ecosystem Services
FNC03-495	Establishing a Wisconsin Hatchery to Produce and Sell Organically Raised Pastured Poultry Chicks	\$5,981	Julia Maro Coon Creek Family Farm
FNC02-387	The Use of Movable High Tunnels in the Organic Production of Strawberries, Potatoes, and Raspberries	\$5,644	Daniel Mielke
FNC02-393	Promotion of Year Round Products and Winter Market	\$17,900	Beth Rogers
FNC02-421	Late Hive Splits As A Way of Saving Money and Improving The Stock of Bees in the North Central Region	\$2,330	Walter Diehnelt
FNC01-359	Farm City Market Basket (FCMB)	\$5,000	Will Allen Growing Power, Inc.

FNC01-361	Sustainable Dairy Operation Phase 1: Convert to Grazing	\$15,000	Mark McDonald
FNC01-366	Winter Grazing of Ewes on Inter-Seeded Forage Corn and Kale	\$1,600	Eugene Schriefer, Jr.
FNC01-386	Nutrient Testing - Pasture Based Dairy Products	\$15,000	Valerie Dantoin
FNC00-302	Conversion from Conventional to Intensive Rotational Grazing Dairy	\$5,000	Edward Pattison
FNC00-313	WatersMeet Eco* Farm	\$4,072	Jane Krogstad
FNC99-266	Sustainable Apple Production System	\$4,109	Eric Carlson Blue Vista Farm
FNC99-278	Creating Producer-controlled and Consumer-oriented Dairy Markets in Southern Wisconsin	\$14,377	John Kinsman
FNC98-209	Enhancing Native Bee Populations for Pollination	\$4,700	John Cuddy
FNC98-228	Quantifying Seasonal Nutritional Quality Changes in Managed Pastures	\$5,000	Greg Williamson
FNC98-243	Weed and Feed: Vegetable Transplants with Corn Gluten Meal	\$4,866	Renee Randall
FNC97-163	Composting for Disease Suppression	\$4,610	Richard De Wilde
FNC97-192	Cooperative Marketing of Sheep Milk	\$10,000	Jeff Foster
FNC97-193	Replacing Chemical Weed Control with Mulch in Commercial Blueberries	\$4,980	John Cuddy
FNC96-149	Northwood Farm Sustainably Raised Beef	\$5,000	James Goodman

FNC96-150	Life After CRP: Conservation and Economic Benefits of Improved Grassland Cover Using Management Intensive Grazing in Wisconsin	\$4,100	Kim Cates
FNC96-154	An Analysis of Producing and Direct Marketing Pasture-finished Beef	\$5,912	Thomas Wrchota Cattleana Ranch
FNC96-159	Exploring a Low-input Alternative for Watering Ewes in the Winter	\$3,195	Bryan Fyksen
FNC96-162	Sustainable Mushroom Cultivation in the North for Disabled Growers	\$4,055	Mitchell Huebner
FNC95-097	Lane Construction and Pasture Renovation	\$4,005	Myron Herek
FNC95-101	Rotational Grazing Management Internships	\$5,000	Dan Forsythe
FNC95-121	Orchard Mason Bees: Collection and Use in Southwest Wisconsin	\$2,545	Ryan Wilson
FNC94-075	Sustainable Organic Apple Production	\$4,790	Eric Carlson Blue Vista Farm
FNC94-076	Low-Input Portable Sheep Dairying	\$5,000	Judith Moses Producer
FNC93-040	Developing Dairy Heifers on Pasture	\$4,985	Thomas Wrchota Cattleana Ranch
FNC93-044	Quality of Life Study: Comparing Conventional and Rotational Grazing Dairy Systems	\$3,600	Ed Jeanquart
FNC93-046	Producing and Processing Sweet Sorghum in the Upper Midwest	\$1,700	Richard Wittgreve Rolling Meadows Livestock Farms
FNC93-054	Evaluating Different Forages in a Rotational Grazing System	\$3,099	Kevin Kirker
FNC93-055	Evaluating Various Forage Combinations in a Rotational Grazing System	\$2,850	Myron Herek

FNC92-006	Evaluation of Various New Zealand Forages in Sheep Production	\$1,085	David Sowatzke
FNC92-010	Evaluation of Forages in Rotational Grazing System for Dairy	\$2,311	William Andres
FNC92-015	Using Poultry and New Scouting Techniques to Control Plum Curculio	\$4,700	Michael Bedessem Turkey Ridge Orchard
FNC92-018	Quality of Life: Comparisons in Various Dairy Operations	\$5,000	Ed Jeanquart
FNC92-019	Evaluating Rotational Grazing in the Development of Replacement Dairy Heifers	\$2,300	Kevin Kirker

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE Support	Project Leaders
GNC24-387	Assessing the impact of different canopy management practices on disease control of cold-climate wine grapes in Wisconsin	\$14,179	Dr.Leslie Holland UW-Madison Courtney Cameron UW-Madison
GNC24-388	Valuing the Margins: Identifying Marginal Land Within Fields and Valuing the Benefits of Conversion to Perennial Grassland	\$17,364	Randall Jackson University of Wisconsin-Madison Clarissa Dietz University of Wisconsin-Madison
GNC24-400	Impact of Attract-and-Kill Expansion on <i>Popillia japonica</i> (Coleoptera: Scarabaeidae) in Wisconsin Vineyards	\$17,183	Dr.Christelle Guédot University of Wisconsin - Madison Emilie Parkanzky University of Wisconsin-Madison
GNC23-367	Direct Quantification of Manure Derived N Retention in Cover Crops After Fall Applications via ¹⁵ N Enrichment	\$14,993	Dr.Matthew Ruark University of Wisconsin- Madison Dr.Zac Freedman University of Wisconsin-Madison Tanner Judd University of Wisconsin- Madison
GNC23-370	Investigating the effect of a commonly used apiculture antibiotic on honeybee colony thermoregulation and health	\$14,930	Dr.Chelsea Cook Marquette University Justine Nguyen Marquette University, Department of Biological Sciences
GNC23-372	Characterizing husbandry practices on dairy sheep farms in the North Central Region	\$15,000	Dr.Sarah Adcock University of Wisconsin-Madison Gretchen Peckler University of Wisconsin

GNC22-341	Finding common ground: Identifying barriers to sustainable agriculture transitions among Upper Midwest row crop farmers	\$14,740	Randall Jackson University of Wisconsin-Madison Ashley Becker UW-Madison
GNC22-354	Early Prediction of Heat Stress in Dairy Cattle Using Artificial Intelligence for Sustainable Livestock	\$14,993	Dr.Youngyun Kim University of Wisconsin-Madison Omkar Chandrakant Prabhune University of Wisconsin-Madison
GNC22-356	Maintaining Kernza intermediate wheatgrass grain yields overtime in organic and conventional systems in WI	\$15,000	Valentin Picasso University of Wisconsin - Madison Erica Shoenberger UW-Madison
GNC22-359	Investigating the Biology of False Blossom Phytoplasma and its Leafhopper Vector to Inform Integrated Pest Management Approaches for Cranberry Growers	\$14,658	Dr.Christelle Guédot University of Wisconsin - Madison Dr.Leslie Holland UW-Madison Casey Trickle University of Wisconsin Madison
GNC21-316	Identifying determinants and opportunities for expansion of organic small grain acreage in the Upper Midwest	\$14,850	Dr.Ryan Galt University of California, Davis Lauren Asprooth University of Wisconsin, Madison
GNC21-317	Evaluating the relationships between pasture management, soil health and ecosystem services through on-farm monitoring	\$14,905	Dr.Matthew Ruark University of Wisconsin- Madison Abigail Augarten UW-Madison
GNC21-329	Assessing attract-and-kill as a new management strategy for Japanese beetle in Wisconsin vineyards	\$12,080	Dr.Christelle Guédot University of Wisconsin - Madison Mitchell Lannan UW-Madison
GNC20-302	Effects of ericoid mycorrhizal fungi on performance of V. macrocarpon and V. oxycoccos under abiotic stresses related to climate change	\$14,879	Dr.Amaya Atucha University of Wisconsin Madison Dr.Juan Zalapa University of Wisconsin-Madison, Department of Horticulture Becca Honeyball University of Wisconsin Madison
GNC20-303	Peer-to-Peer Labor Management Training for Diversified Organic Vegetable Producers	\$14,873	Michael Bell Dept. of Community and Environmental Sociology, U. of Wisconsin-Madison Sarah Janes Ugoretz University of Wisconsin-Madison
GNC19-274	Improving irrigation and fertilizer management strategies across the Wisconsin Central Sands under a changing climate	\$14,444	Dr.Christopher Kucharik University of Wisconsin-Madison Tracy Campbell University of Wisconsin - Madsion

GNC19-275	Assessment of soil management strategies for sustainable crop production, weed management and mitigation of herbicide carryover	\$15,000	Kolby Grint University of Wisconsin - Madison Dr.Rodrigo Werle University of Wisconsin-Madison Kolby Grint University of Wisconsin - Madison
GNC19-279	Evaluating and mitigating forage losses associated with a rest paddock for ground-nesting birds in pastures	\$14,978	Dr.Mark Renz University of Wisconsin Laura Judge University of Wisconsin-Madison
GNC19-281	Student-based, farmer-advised sustainable food systems curriculum: A collaborative approach for developing and assessing agricultural education in elementary schools	\$13,877	Dr.Julie Dawson University of Wisconsin-Madison Laura Livingston UW-Madison
GNC19-285	Impact of management practices on soil health in organic grain systems	\$14,963	Dr.Matthew Ruark University of Wisconsin- Madison Dr.Erin Silva University of Wisconsin-Madison Miranda Sikora University of Wisconsin-Madison
GNC18-265	Impact of Mulches on Management of Spotted Wing Drosophila, Fruit Yield and Quality	\$11,987	Dr.Christelle Guédot University of Wisconsin - Madison Hanna McIntosh University of Wisconsin-Madison
GNC17-239	Effect of landscape on migration of Japanese beetle into vineyards across Southern Wisconsin	\$11,919	Dr.Christelle Guédot University of Wisconsin - Madison Jacob Henden University of Wisconsin, Department of Entomology
GNC17-243	Understanding irrigation technologies and grower decision-making in the Wisconsin Central Sands	\$11,882	Dr.Christopher Kucharik University of Wisconsin-Madison Elizabeth McNamee University of Wisconsin-Madison
GNC17-249	The Effect of Best Management Practices on Soil Health in Wisconsin: A Comparison of Soil Biological Measurements Using Long-Term Trials	\$11,906	Dr.Matthew Ruark University of Wisconsin- Madison Greg Richardson University of Wisconsin-Madison
GNC16-228	Facilitating Grazing Partnerships on Wisconsin's Public Grasslands: Assessing Plant Communities and Developing Best Practices	\$9,607	Randall Jackson University of Wisconsin-Madison Greta Landis University of Wisconsin-Madison
GNC15-206	Climate Resilient Forages for the Upper Midwest	\$9,998	Dr.Daniel Schaefer University of Wisconsin-Madison Christine Nieman University of Wisconsin Madison

GNC15-209	Beef Producer Demand for Grazing Public Land: Opportunities and Constraints	\$9,997	Mark Rickenbach Courtney Robinson UW-Madison
GNC15-210	Disease Susceptibility in Cold-Climate Grape Cultivars of the North Central Region	\$9,836	Patricia McManus UW Madison David Jones University of Wisconsin Madison
GNC14-197	Linking Nutrient Transport to Soil Physical Processes During Freeze/Thaw Events to Promote Wintertime Manure Management, Nutrient Use Efficiency, and Surface Water Quality	\$9,992	Dr.Francisco Arriaga University of Wisconsin - Madison Melanie Stock Department of Soil Science, UW-Madison
GNC13-167	Beyond Economic Thresholds: Incorporating Proactive Pest Management Strategies in Alfalfa Pest Management Programs for Potato Leafhopper	\$8,509	Dr.Carrie Laboski University of Wisconsin-Madison Dan Undersander University of Wisconsin-Madison Dr.Eileen Cullen UW-Madison Dept. of Entomology Elissa Chasen Entomology Dept. University of Wisconsin-Madison
GNC13-168	Nitrogen and Soil Quality Benefits of Radish as a Cover Crop	\$9,484	Richard Proost UW Madison Dr.Matthew Ruark University of Wisconsin- Madison Megan Chawner University of Wisconsin- Madison
GNC13-172	Use of Watershed Modeling to Target Management Practices in an Agricultural Watershed	\$9,864	Dr.K. G. Karthikeyan UW-Madison Dr.Anita Thompson UW-Madison Jasmeet Lamba Biological Systems Engineering Department, UW - Madison
GNC13-174	Using Wild Relatives of Potato to Illustrate Genetic Control Against the Pathogenic Bacteria Pectobacterium carotovorum	\$9,841	Dr.Amy Charkowski University of Wisconsin-Madison Jenna Lind University of Wisconsin-Madison
GNC13-175	Diversity Prospecting for an Open Source Plant Breeding Framework	\$9,945	Irwin Goldman University of Wisconsin- Madison Claire Luby University of Wisconsin- Madison

GNC13-178	Impacts of Crop Management and Climate Change on Hydrology Across the Wisconsin Central Sands	\$9,999	Dr.George Kraft University of Wisconsin-Stevens Point Dr.Christopher Kucharik University of Wisconsin-Madison Mallika Nocco University of Wisconsin
GNC13-179	Improving Soil Health Through Cover Crop Based No-Till Organic Vegetable Production	\$9,997	Dr.Erin Silva University of Wisconsin-Madison Anne Pfeiffer UW-Madison
GNC12-149	Integrated Livestock Production and Conservation: Managed Goat Grazing in Open Oak Systems	\$9,973	John Harrington University of Wisconsin-Madison Katherine Baumann University of Wisconsin - Madison
GNC12-157	Evaluating the Effectiveness of Non-chemical Management Methods for Reducing Losses in Pasture Forage Quality, Quantity, and Utilization from Canada Thistle	\$9,984	Dr.Mark Renz University of Wisconsin Anders Gurda University of Wisconsin-Madison
GNC10-120	On-farm conservation of native bees: Understanding the barriers to implementation and assessing viability in WI cranberry	\$9,970	Claudio Gratton University of Wisconsin, Dept. Entomology Hannah Gaines Day University of Wisconsin-Madison
GNC10-121	Improved Scouting Procedures and Deployment of Physical Control Tactics for Colorado Potato Beetle (<i>Leptinotarsa decemlineata</i> , Say) in Wisconsin Potato Production	\$9,742	Russ Groves UW-Madison Anders Huseth UW-Madison
GNC10-126	Buckwheat Cover Crops on Wisconsin Vegetable Farms: Grower Perspective, Genetic Variation, and a Weed Suppression Study Using Tartary Buckwheat	\$9,126	Dr.Joshua Posner Agronomy Department, University of Wisconsin Mary Saunders UW Madison
GNC10-128	Corn silage Production with Kura Clover Living Mulch and Winter Rye Cover Crop; Soil Erosion, Nutrient Runoff, and Soil Physical Properties	\$9,992	Ken Albrecht University of Wisconsin-Madison Arthur Schwab Univ of WI - Dept of Agronomy
GNC10-142	Can Wild Bees Meet Pollination Needs in Apples?: Determining the Efficacy of Native Bees and Their Contribution to Pollination	\$9,850	Claudio Gratton University of Wisconsin, Dept. Entomology Rachel Mallinger University of Wisconsin Madison

GNC09-110	Relationship between organic fertility management, plant nutrition, and insect response	\$9,842	Dr.Eileen Cullen UW-Madison Dept. of Entomology Robin Mittenthal UW Madison Dept. of Entomology
GNC09-114	Benefits of increasing grazing height on weed suppression in grass based grazing systems	\$9,199	Dr.Mark Renz University of Wisconsin Marie Schmidt UW-Madison
GNC08-091	Epidemiology of the aster yellows phytoplasma: the influence of non-crop hosts on geographic distribution and movement of the pathogen	\$9,873	Russ Groves UW-Madison Kenneth Frost University of Wisconsin-Madison, Dept. of Plant Pathology
GNC07-076	Burning and grazing cool-season grasslands to promote native grass recruitment for agronomic, ecological, and social benefits	\$9,972	Randall Jackson University of Wisconsin-Madison Emma Bouressa Unviersity of Wisconsin-Madison
GNC07-077	Does a C3-C4 forage mix simultaneously improve forage production and carbon sequestration?	\$9,911	Randall Jackson University of Wisconsin-Madison Herika Kummel UW-Madison
GNC07-079	Effects of two Conservation Reserve Program Prairie Restorations on Soil Microbial Communities	\$9,800	Teri Balsler UW-Madison Laura Lipps University of Wisconsin-Madison
GNC07-081	Assessment of pasture management practices on microbial biomass, composition, and functional diversity	\$9,924	Randall Jackson University of Wisconsin-Madison Lawrence Oates University of Wisconsin - Madison
GNC06-068	Meeting the Expectations of People and the Land: Enacting Sustainable Agriculture	\$9,999	Michael Bell Dept. of Community and Environmental Sociology, U. of Wisconsin-Madison Sarah Lloyd Department of Rural Sociology
GNC05-043	Marker-Assisted Selection of late blight (Phytophthora infestans) resistant potatoes (Solanum tuberosum)	\$10,000	Jiming Jiang University of Wisconsin - Madison Lara Colton University of Wisconsin - Madison
GNC05-051	Effect of Supplementation and Lactation Stage on Performance of Grazing Dairy Ewes	\$9,951	David Thomas University of Wisconsin-Madison Claire Mikolayunas University of Wisconsin-Madison
GNC04-026	Incorporating native grasses for conservation into pastures of the Upper Midwest: Assessing farmer attitudes	\$9,570	Randall Jackson University of Wisconsin-Madison Julie Woodis nee Doll University of Wisconsin-Madison

GNC04-027	Socioeconomic Analysis of Organic, Grass-Based & Conventional Dairy Farmers in Wisconsin with Case Study in Amish Stewardship Practices in the Kickapoo Valley	\$10,000	Bradford Barham University of Wisconsin-Madison Caroline Brock University of Wisconsin- Madison
GNC04-032	Sustainable Plant Breeding :A Participatory Methodology for CSA's and Fresh Market Vegetable Producers in South Central WI	\$9,969	Brent McCown University of Wisconsin, Madison Katrina Becker Center for Integrated Agricultural Systems
GNC04-033	Working towards a sustainable agriculture: Landscape diversity, beneficial insects and pest suppression	\$8,202	Claudio Gratton University of Wisconsin, Dept. Entomology Benjamin Werling University of Wisconsin, Dept. Entomology
GNC04-038	Characterization of Nitrogen Cycling in Cultivated Cranberry Beds to Improve Efficiency and Sustainability of Fertilizer Application	\$6,815	Kevin Kosola University of Wisconsin-Madison Sarah Stackpoole University of Wisconsin-Madison
GNC04-039	Honoring the Third Fire: Investigating Claims to Ownership of Seeds as Reproducible Property	\$9,739	Michael Bell Dept. of Community and Environmental Sociology, U. of Wisconsin-Madison Kaelyn Stiles University of Wisconsin-Madison
GNC02-010	Corn Production in a Living Mulch to Conserve Soil and Reduce Fertilizer Inputs in the Northern Corn Belt	\$10,000	Ken Albrecht University of Wisconsin-Madison Tessa Milofsky University of Wisconsin-Madison Agustina Sabalzaray University of Wisconsin-Madison

ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE Support	Project Leaders
ONC24-138	Establishing Honeyberry Collaborative Trials using SeedLinked to Crowdsource Cultivar Performance Data and Inform Grower Selections	\$29,716	Dr.Amaya Atucha University of Wisconsin Madison
ONC24-151	Training and On-Farm Support to Onboard Farmers to the Wholesale Ready Program	\$49,608	Dr.Philip Kauth, PhD REAP Food Group
ONC23-117	The Cultivar Check Program: Utilizing the Midwestern Hemp Database (MHD) and Grower-Cooperators to Assess Variety Performance of High Cannabinoid Hemp	\$49,339	Phillip Alberti University of Wisconsin-Madison

ONC23-120	Weeding workshops: Building weed management skills and networks with diverse farmers	\$49,707	Anne Pfeiffer UW-Madison
ONC23-126	Keeping vegetable farmers growing through one-on-one professional peer coaching	\$49,970	Beth Knorr FairShare CSA Coalition
ONC23-131	Agricultural Transformations in the Red Cedar Learning Hub	\$47,733	Dr.John Strauser University of Wisconsin-Madison
ONC23-132	Nitrogen Credits and Fertilizer Dollars Saved: Identifying benefits for seeding diverse legume-based cover mixes into or after winter small grains	\$49,054	Dr.Nicole Tautges Michael Fields Agricultural Institute
ONC23-135	Finding the sweet spot: rye termination timing to balance weed suppression and yield reduction in green planted no-till soybean.	\$49,892	Dr.James Stute Stute Farms
ONC22-098	Exploration of Fiber Hemp Production and Quality	\$40,000	JERRY CLARK Division of Extension University of Wisconsin - Madison
ONC21-083	Harvesting and Feeding Winter Rye, Winter Triticale, and other Alternative Forages to Dairy and Beef Cattle	\$40,000	Luiz Ferraretto University of Wisconsin - Madison Liz Binversie University of Wisconsin Madison
ONC21-090	Developing educational resources for improved postharvest handling of value-added wheat and rye on small and mid-sized farms	\$39,997	Alyssa Hartman Global Philanthropy Partnership
ONC21-094	Can "planting green" suppress troublesome glyphosate tolerant/ resistant weeds in no-till soybean?	\$39,680	Dr.James Stute Stute Farms
ONC20-067	Building Resilient Organic Farms through Communities of Practice	\$39,934	Lori Stern Marbleseed
ONC20-069	On-Farm Stewardship Research Group: Farmer-Led Research to Promote Working Lands Conservation for Soil Health, Water Quality and Biodiversity.	\$40,000	Shelly Gradwell-Brenneman Valley Stewardship Network

ONC20-072	Soil Sisters: Increasing women farmer-led education and opportunities through local network building and learning circles	\$39,976	Jan Joannides Renewing the Countryside
ONC19-063	Building sustainable relationships around the use of grazing cover crops on dairy and livestock farms in Southern Wisconsin	\$39,900	Marie Raboin Dane County Land Conservation
ONC18-039	Extending the Season in Northern Wisconsin Through Processing Vegetable Production	\$29,891	Jason Fischbach UW-Madison, Division of Extension
ONC18-046	Using Living Aisles and No-Till Planting Strips to Mitigate the Impacts of Intense Rain Events on Organic Vegetable Farms	\$29,999	Claire Strader FairShare CSA Coalition
ONC18-049	Agroforestry education using the collective experience of pioneer farmers	\$29,984	Dr. Kevin Wolz, PhD Savanna Institute
ONC18-050	Growing for Tomorrow	\$29,655	Kellie Zahn Stockbridge-Munsee Community
ONC17-024	The Best of 'Farmer to Farmer' Podcast: Revisiting and Expanding Solutions for Market Farm Start-up, Scale-up, CSA Modeling, and Employee Management	\$28,973	Chris Blanchard Purple Pitchfork
ONC17-030	Comparing Apples to Apples: Participatory Research for Artisanal Cider Producers	\$29,999	Michelle Miller University of WI - CIAS
ONC17-033	Use of Tarps to Terminate High-Residue Winter-Hardy Cover Crops Before No-Till Organic Vegetables	\$29,998	Claire Strader Dane County Extension
ONC17-034	Do Cover Crops pay? Expanding a Learning Circle for Peer to Peer Cover Crop Promotion Using Economics as a Theme	\$29,355	Dr. James Stute Michael Fields Agricultural Institute
ONC16-018	Partnering to Refine Organic No-Till Production in Wisconsin	\$29,813	Dr. Erin Silva University of Wisconsin-Madison
ONC16-022	Use of High-Residue, Winter-Killed Cover Crops in No-Till Organic Tomatoes	\$29,998	Claire Strader FairShare CSA Coalition

ONC15-006	Enhancing Women Farmers' Understanding of Cover Crops	\$28,426	Lisa Kivirist Midwest Organic and Sustainable Education Service (MOSES) Jody Padgham Midwest Organic and Sustainable Education Service (MOSES)
ONC15-010	Farmer-Led Research for Increased Cover Crop and No-Till Adoption in Northwest Wisconsin	\$25,000	Logan Ahlers UW - Madison Paul Kivlin
ONC15-011	Cover Crops as Living Mulch under Organic Vegetables	\$29,997	Claire Strader FairShare CSA Coalition

YOUTH EDUCATOR GRANTS

Project #	Project Title	SARE Support	Project Leaders
YENC24-222	Sustainable Agriculture Mobile Learning Lab	\$6,000	Tara Wachowski Manitowoc County Soil & Water Conservation Department David Wetenkamp Manitowoc County Soil & Water Conservation Department
YENC23-195	Fueling Future Minds	\$5,995	Amelia Hayden Osseo-Fairchild School District
YENC23-203	Ground School: Educating Young Adults About What's Possible In Sustainable Ag. Careers	\$5,980	Alessandra Rolffs Gathering Ground
YENC22-181	Aquaponics for Hyperlocal Food	\$6,000	Vince Hucek Kingdom Prep Lutheran High School
YENC21-166	Hydroponic and Aquaponic Pergola: Classroom inquiry meets local food needs	\$1,478	Zachary Markhardt Green Bay East High School
YENC21-167	Silverwood Park's Sustainable Agriculture Summer School	\$4,000	Kyle Richmond Friends of Silverwood Park, Inc.
YENC19-136	Accessible Experiential and Vocational Education through Urban Greenhouse Agriculture	\$3,966	Matthew Fornoff REAP Food Group Helen Sarakinos REAP Food Group
YENC16-100	Farmer in the Classroom: Introducing Elementary Students to Local Farmers and Sustainable Agricultural Practices	\$2,000	Ross Cohen REAP Food Group

YENC16-102	Sustainable Beef, Sheep and Swine Production in WI-What is It? and Where Do We Find It?	\$1,796	Jessie Oberlin Jackson County, WI Livestock Education Committee
YENC16-106	Grow Your Green	\$1,715	Kristel Renn STAR Credit Union
YENC15-087	Sustainable Agriculture Summer Camp at Riveredge Nature Center	\$2,000	Sunny Knutson Riveredge Nature Center
YENC14-079	Youth Beekeeping & Entrepreneurship - Building a National Model	\$2,000	Jennica Skoug Community GroundWorks
YENC13-064	Engaging Student Learning in Agriculture	\$2,000	Amber Marlow Lac Courte Oreilles Ojibwa Community College
YENC12-040	Women Farmers Supporting the Next Generation of Sustainability	\$2,000	Lisa Kivirist Midwest Organic and Sustainable Education Service (MOSES)
YENC12-044	Distribution of educational materials to schools visiting Sunrock Farm from Greater Cincinnati	\$1,940	Katherine Keller Sunrock Farm
YENC12-052	Youth Beekeeping Pilot Program	\$2,000	Kate Sullivan Community GroundWorks
YENC10-024	Aquaponics Farm-to-School Lunch Initiative	\$2,000	Steve Schauf
YENC10-030	Sustainable Living: Going Off the Grid	\$1,962	Diana J. Woodworth Sheboygan Falls School District
YENC10-034	Fieldhands and Foodways	\$2,000	Venice Williams Center for Resilient Cities
YENC09-015	Sustainable Greenhouse Production Practices - Hydroponics, Aquaponics, and Growing Food Locally	\$1,986	Nathan Papendorf

YOUTH GRANTS

Project #	Project Title	SARE Support	Project Leaders
YNC10-053	Aquaponics Farm to School Lunch Initiative	\$400	Jacob Toetz

YNC10-054	Planting, Harvesting and Selling What I Grow	\$400	Caleb Richter
YNC10-057	Sharing the Buzz: Beekeeping and the Plants That Attract Them - Teaching Other Kids About These Amazing Creatures	\$400	Thomas Bubenzer Sunflower Hill Farm
YNC10-063	Growing a Local Business: One Tomato At a Time	\$400	Andrew Trilling
YNC08-003	Youth Beekeeping at Troy Community Farm	\$366	Sierra Kay Powell

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\$15,058,273**



For further information on projects, contact North Central SARE at (612) 626-3113 or ncrsare@umn.edu.

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