

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 \$354 million to more than 8,043 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.



www.sare.org

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

Iowa

Project Highlight: *Prairie Strips as a Farmland Conservation Practice*

For almost 20 years, farmers and researchers in Iowa have been experimenting with prairie strip plantings to help reduce surface runoff from agricultural fields. Prairie strips are a conservation practice that uses strategically placed native prairie plantings in crop fields to retain soil and prevent runoff. STRIPS, which stands for "Science-based Trials of Rowcrops Integrated with Prairie Strips," is a group of scientists researching the benefits of integrating prairie into crop production systems.

They started this work back in 2003, and in 2007, Seth Watkins near Clarinda, Iowa, was the first farmer to work with the STRIPS project. In 2009, the STRIPS project applied for a SARE grant to expand their research. With the grant, they investigated and demonstrated the effects of incorporating perennial vegetation in the form of restored native prairie into row-crop agriculture at 12 watersheds at the Neal Smith Wildlife Refuge near Prairie City, Iowa.

Dozens of Iowa farmers adopted STRIPS in the time following the findings from the Neal Smith Wildlife Refuge. Today, prairie strips are part of the continuous Conservation Reserve Program under CP43. More than 14,000 acres of prairie strips have been planted in more than 14 states.

Dan Stoffel worked with the Sand County Foundation on a 2016 SARE project to extend and adapt the experience of the Iowa State University prairie strips project into Wisconsin. Stoffel grows soybeans, alfalfa, and oats on 800 acres of rolling terrain that has been in his family since the late 1870s. On Stoffel's farm, two fields, in particular, had some problematic water flow areas.

"Initially, I wanted just to get a sense of how they look and work," said Stoffel in a 2018 interview. "Two years into this, I've found their root structures and plant residue makes a big difference. They hold their own against the water."

For more information on these projects, see sare.org/projects, and search for project numbers [LNC09-314](#), [LNC16-378](#), and [GNC18-257](#).

SARE in Iowa

northcentral.sare.org/state-programs/iowa

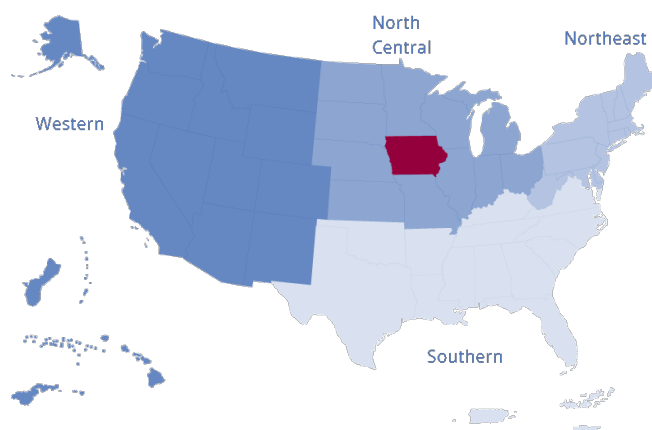
\$8,712,749
in total funding

235 grant projects

(since 1988)

For a complete list of grant projects state by state, go to

www.sare.org/state-summaries



SARE Grants in Iowa

Total awards: 235 grants



58 Research and Education
24 Professional Development Program
92 Farmer/Rancher
38 Graduate Student
12 On Farm
Research/Partnership
11 Youth Educator

Total funding: \$8,712,749



\$5,651,509 Research and Education
\$1,425,020 Professional Development Program
\$756,058 Farmer/Rancher
\$403,717 Graduate Student
\$452,903 On Farm
Research/Partnership
\$23,542 Youth Educator

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:

northcentral.sare.org/state-programs/iowa

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-pages/iowa to learn more.

Christa Hartsook
Iowa State Univ, Extension &
Outreach
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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 IOWA

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

Iowa has been awarded \$8,712,749 grants to support 230 projects, including but not limited to, 53 research and/or education projects, 24 professional development projects and 92 producer-led projects. Iowa has also received additional SARE support through multi-state projects.

RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE Support	Project Leaders
LNC21-449	Communities of Practice and Farmer Led Training for Increased Sustainability of Refugee & Immigrant Farms in the North Central Region	\$250,000	Nicholas Wuertz Lutheran Services in Iowa
LNC19-422	Reuniting the Three Sisters: Native American Intercropping and Soil Health	\$200,000	Dr.Christina Gish Hill Iowa State University
LNC19-425	Towards widespread adoption of prairie conservation strips: case studies increase expertise of professional farm managers, landowners and farmers	\$199,547	Dr.Laura Jackson Tallgrass Prairie Center, University of Northern Iowa
LNC18-409	Redefining the Field Edge	\$199,351	Dr.Mark Licht Department of Agronomy, Iowa State University
LNC18-404	Optimizing mesotunnel systems for sustainable production of cucurbit crops	\$193,962	Dr.Mark Gleason Iowa State University
LNC18-400	Treating Small Grains as a Cash Crop: stepping up small grain variety selection for Cornbelt farmers	\$199,817	Sarah Carlson Practical Farmers of Iowa
LNC16-386	Growing Profitable, Sustainable Farming Businesses with Beginning Refugee Farmers in Central Iowa	\$200,000	Nicholas Wuertz Lutheran Services in Iowa
LNC15-365	Beekeeper Education and Support in NW Iowa	\$63,481	Dr.Duane Bajema Dordt College
LNC15-370	Protecting Soybeans from Aphids, as Easy as (Rag) 1, 2, and 3	\$127,247	Erin Hodgson Iowa State University
LNC15-375	Economic Evaluation of Cover Crops in Midwest Row Crop Farming	\$183,969	Dr.Alejandro Plastina Iowa State University
LNC14-362	Cover Crops and Strip Tillage to Promote Soil Quality, Environmental Sustainability, Food Safety, and Profitability in Cucurbit Cropping Systems	\$198,353	Dr.Ajay Nair Department of Horticulture, Iowa State University
LNC13-350	Integrating Perimeter Trap Crops and Row Covers into Cucurbit-crop Farming Systems	\$199,250	Dr.Mark Gleason Iowa State University

LNC13-352	Improved Cover Crop Options for Corn Belt Farmers	\$197,608	Dr.Andy Lenssen Department of Agronomy, Iowa State University
LNC12-346	Great Plains Agroforestry: Evaluation of Bioenergy Feedstock and Carbon Sequestration as Potential Long-term Revenue Streams to Diversify Landowner Income	\$191,212	Thomas Sauer USDA-ARS
LNC10-317	Developing a Conservation Education and Outreach Program Targeted at Women Farmland Owners in IA, NE and WI	\$81,766	Ahna Kruzic Women, Food & Agriculture Network
LNC10-323	Optimizing Row Covers and Perimeter Trap Crops for Cucurbit Pest Management	\$174,462	Dr.Mark Gleason Iowa State University Dr.Jean Batzer Iowa State University
LNC09-314	Mixing Reconstructed Prairie with Cropland to Balance Food and Biofuel Production with Environmental Quality	\$174,722	Dr.Matthew Helmers Iowa State University
LNC08-291	Facilitating Change: Reducing the Risks of Transitioning to Organic through a Comprehensive Farmer- and Extension-Based Training Program	\$144,543	Kathleen Delate Iowa State University
LNC08-293	Bioenergy and Diversity from Sustainable Systems and Crops	\$138,638	Sarah Carlson Practical Farmers of Iowa Dr.Rick Exner Practical Farmers of Iowa
LNC07-284	Implementing biointensive pest management and evaluating hard cider manufacturing to increase sustainability of apple production	\$129,427	Dr.Mark Gleason Iowa State University
LNC07-289	Grass-fed and Organic Beef: Production Cost and Profit Potential	\$149,966	Mary Holz-Clause Iowa State University Extension Dr.Margaret Smith Iowa State University
LNC06-271	Working Alternatives to Re-cropping Marginal Lands	\$100,000	Chris Nelson Southern Iowa Forage & Livestock Committee Melissa Maynes Southern Iowa Forage & Livestock
LNC05-255	Improving Soil Quality During and After Organic Transition	\$145,509	Kathleen Delate Iowa State University
LNC05-257	Double Cropping Field Peas Offer Economic Sustainability for Midwest Swine Producers	\$109,651	Dr.Jim Fawcett Iowa State University
LNC05-259	Practical Biodiversity: Keeping Oat on Farms by Helping Farmers Enhance Disease Resistance	\$111,548	Emily Heaton
LNC04-241	Teaching Tomorrow's Leaders in Sustainable Agriculture	\$57,969	Robert De Haan Dordt College
LNC04-242	Evaluation of Health Benefits of Conjugated Linoleic Acid (CLA)-Enriched Dairy and Beef Foods	\$150,000	Teresa Steffens Resource Conservation and Development for Northeast Iowa, Inc
LNC03-230	Research Alliance for Farrowing, the Weak Link in Alternative Swine Systems	\$149,759	Dr.Rick Exner Practical Farmers of Iowa

LNC02-213	Implementing Sustainable Management of Muskmelon Diseases, Weeds, and Insect Pests in Partnership with Iowa Growers	\$95,441	Dr.Mark Gleason Iowa State University
LNC01-198.1	Completion of Soil Fertility Paradigms Evaluated through Collaboration On-Farm and On-Station	\$20,288	Dr.Rick Exner Practical Farmers of iowa
LNC00-164	Technology Transfer of Grazing System Components to Producers Implementing Sustainable Rotational Grazing Systems	\$24,587	Mark D. Boswell Southern Iowa Forage and Livestock Committee
LNC00-166	Expanding local markets through linking institutional food buyers to local farmers and processors in Northeast Iowa	\$43,000	Kamyar Enshayan University of Northern Iowa
LNC00-167	Southeast Iowa Agroforestry Demonstration	\$9,650	Christa Perkins Geode RC&D/USDA-NRCS
LNC00-171	Perennial Grass Covers Affect Long-Term Soil Quality	\$96,100	James Raich Iowa State University
LNC99-160	Integrating Organic Soybean Production following Conservation Reserve Program (CRP) Land into Sustainable Farming Systems	\$27,500	Kathleen Delate Iowa State University
LNC98-132	Producer-Owned Cooperative to Process and Market Sustainably Produced Pork	\$23,590	Dennis Smith Iowa Farmers Union
LNC98-138	Soil Fertility Paradigms Evaluated through Collaboration On-Farm and On-Station	\$59,027	Dr.Rick Exner Practical Farmers of iowa
LNC97-114	Combining Landscape and Augmentative Biological Control to Suppress European Corn Borer Populations in Sustainable Low-Input Systems	\$92,740	Leslie Lewis Iowa State University
LNC96-097	The Adams County CRP Research and Demonstration Project	\$52,000	Douglas Brown Okey Vernon First National Bank
LNC96-107	Integration of Indigenous Knowledge of Sustainable Agricultural Systems	\$15,000	Dr.Cornelia Butler Flora Iowa State University
LNC95-080	Importing a Sustainable Model of Feeder Pig Production from Sweden: A Cooperative Project	\$81,513	Mark Honeyman Iowa State University
LNC95-084	FFA Participation in On-Farm Demonstrations of New Tools for Optimizing use of Animal Manures in Crop Production	\$90,000	Alfred Blackmer Iowa State University
LNC95-093	Regional Inventory and Assessment Project (QOL)	\$146,204	Dr.Cornelia Butler Flora Iowa State University
LNC94-066	Investigation of the Viability of Growing Herbs as Alternative Crops for Iowa Farmers	\$50,260	Eric Franzenburg Benton Development Group

LNC94-071	Production of a Videotape Series Demonstrating Improved Grazing Practices to Promote Forage-Based Livestock Production in the Upper Midwest	\$19,200	James Russell Dept of Animal Science, Iowa State University
LNC92-044	On-Farm Research and Demonstration of Ridge Tillage for Sustainable Agriculture	\$75,867	Dr.Rick Exner Practical Farmers of Iowa
LNC92-051	Training for Forage Production and Intensive Grazing on Highly Erodible Land After CRP Contracts	\$12,445	Bill Bartenhagen Southern Iowa Forage Committee
LNC91-036	Demonstration of Livestock Grazing as an Alternative to Row Crops on Highly Erodible Land Following CRP Contracts	\$40,340	Bill Bartenhagen Southern Iowa Forage Committee
LNC89-017.1	Effect of Tillage and Weed Control Alternatives on Crop Rotations	\$40,000	Richard Cruse Iowa State University
LNC89-018.1	Making the Conversion from Conventional to Sustainable Agriculture: A Videotape Series for Farmers	\$30,000	Jerald DeWitt Iowa State University
LNC88-002	An Economic Analysis of Producer and Industry Level Impacts of Low-Input Agriculture	\$25,000	James Kliebenstein Iowa State University
LNC88-017	Effect of Tillage and Weed Control Alternatives on Crop Rotation	\$40,000	Richard Cruse Iowa State University
LNC88-018	Making the Conversion from Conventional to Sustainable Agriculture: A Videotape Series for Farmers	\$20,000	Jerald DeWitt Iowa State University

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE Support	Project Leaders
ENC19-176	Supporting sustainable small-scale animal agriculture through development of biological risk management educational materials	\$90,000	Dr.Renee Dewell, DVM, MS Iowa State University College of Veterinary Medicine
ENC19-180	Training extension professionals, high school educators, and local food coordinators on basic and advanced aspects of sustainable vegetable production	\$79,159	Dr.Ajay Nair Department of Horticulture, Iowa State University
ENC19-186	Expanding and Diversifying Farmer-Educator Capacity through Ambassador Academies	\$89,789	Sally Worley Practical Farmers of Iowa
ENC18-168	Growing Organic Expertise in Iowa	\$75,000	Rosalyn Lehman Iowa Organic Association
ENC17-161	Training extension educators and local food professionals on sustainable vegetable pest management tools and techniques	\$74,994	Dr.Ajay Nair Department of Horticulture, Iowa State University
ENC16-153	Building capacity of agricultural educators to grow sustainable food systems in Iowa	\$74,742	Craig Chase Iowa State University

ENC16-155	Training agricultural professionals and extension educators manage crop environment and soil quality in high tunnel vegetable production	\$69,924	Dr.Ajay Nair Department of Horticulture, Iowa State University
ENC16-156	Increasing Conservation Investment, Cover Crops and Third Crops in Iowa through Farmer-Led Educational Programs	\$73,447	Sally Worley Practical Farmers of Iowa
ENC13-137	Women Caring for the Land: Improving Conservation Outreach to Non-operator Female Farmland Owners	\$61,054	Ahna Kruzic Women, Food & Agriculture Network
ENC12-132	Educating Agricultural Professionals and Extension Educators in Developing Sustainable and Resilient Cropping Systems through Integration of Cover Crops	\$59,296	Dr.Ajay Nair Department of Horticulture, Iowa State University
ENC12-136	Building Capacity for Climate Extension	\$65,934	Dr.Loie Wright Morton Iowa State University
ENC11-121	Community Capacity Building to Strengthen the Links within the Iowa Local Foods Value Chain	\$42,472	Linda Naeve Iowa State University Extension and Outreach
ENC11-123	Building the Capacity of ANNIES Educators to Help Women Farmers and Ranchers Improve Agricultural Sustainability	\$75,000	Madeline Schultz Iowa State University Extension and Outreach
ENC08-101	Learning how to use communities of practice to address sustainable agriculture issues	\$65,958	Richard Pirog Leopold Center for Sustainable Agriculture Beth Larabee Leopold Center for Sustainable Agriculture
ENC07-094	Impact of Biomass Removal for Bioenergy on Soil and Water Quality	\$50,000	Dr.Mahdi Al-Kaisi Iowa State University
ENC02-070	Training for New Food and Farming Ventures: Iowa Café Part II	\$74,064	Craig Chase Iowa State University
ENC01-059	Building Capacity to Support Small Farm Profitability	\$57,644	Gary Huber Practical Farmers of Iowa
ENC00-048	Building Capacity to Support Local Food System and Community Marketing Efforts in Iowa	\$39,201	Robert Karp Practical Farmers of Iowa
ENC00-050	Participatory website development for soil quality education and assessment to improve agroecosystem management	\$53,537	Susan Andrews USDA-ARS NSTL
ENC99-041	Toolbox Training for Sustainable Agriculture Education	\$35,800	Wendy Wintersteen Iowa State University, Extension Administration
ENC98-032	Planning Sustainable Grazing Systems	\$45,740	Mark D. Boswell Southern Iowa Forage and Livestock Committee
ENC97-020	Legal Guide for Farm Marketers	\$36,250	Neil Hamilton Drake University Law School
ENC97-026	Multi-Agency On-Farm Sustainable Agriculture Training	\$15,335	Richard Thompson Practical Farmers of Iowa

ENC95-010	Building Collaborative Partnerships with Farming Systems Research and Extension	\$20,680	Dr.Cornelia Butler Flora Iowa State University
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FARMER/RANCHER GRANTS

Project #	Project Title	SARE Support	Project Leaders
FNC22-1357	Cover Crop Prescribed Burning and Nutrient Profile	\$11,743	Ana Timmer The Cornucopia
FNC22-1348	Wide Row Cover Crop Demonstrations for Soil and Water Quality Improvement	\$28,870	Bob Recker Cedar Valley Innovation LLC
FNC21-1278	Establishing a Temperature Gradient to Enhance Geothermal Heating and Cooling of a High Tunnel	\$6,555	Eric Jellum Jellum Farm
FNC21-1314	Companion Planting of Sunflowers in Vineyards for Pest Bird Management	\$25,670	Kristy Walker Walker Homestead Farm & Winery, INC
FNC21-1297	Demonstration of Utilization of Cover Crops in Wide Row Corn to Improve Soil Health	\$26,576	Bob Recker Cedar Valley Innovation LLC
FNC21-1289	A monthly planner that combines phenology and beekeeping to improve honey production and native foraging habitat	\$9,000	Julia McGuire Julia McGuire
FNC21-1285	New Variety Strawberry Trial for Iowa	\$3,328	Jennifer and Raymond Kruse White Blossom Farm
FNC20-1215	Beetle Bank Installation and Education on Matthew 25's Cultivate Hope Urban Farm	\$9,000	Zach D'Amico Matthew 25
FNC20-1222	Evaluating soil media for vertical hydroponic strawberry production	\$6,521	Joseph Hannan Roscommon Berry Farm
FNC20-1249	Evaluating raised-bed, no-till vegetable production systems for farm profitability, efficiency, and resilience	\$17,977	Jordan Scheibel Middle Way Farm, LLC
FNC19-1163	Development and Testing of a Drainable Floating Fish Tank for Fish Culture in Deep Water Bodies	\$9,000	Jim Frey Jim Frey Fish Hatchery
FNC19-1158	Evaluating direct to consumer marketing of Midwest grown hops.	\$8,821	Keri Byrum Cedar Falls Hops Co.
FNC19-1177	Local Meal Kits: CSA Adaptation for Sustainability	\$27,000	Jan Libbey One Step at a Time Gardens
FNC18-1122	Establishing the Value of Flower Companions in Cucurbits	\$7,500	Rob Faux Genuine Faux Farm
FNC17-1080	Decreasing Energy Use and Cost of Grain Drying by Extending Drying Period Using Ground-Stored Heat	\$6,548	Eric Jellum Jellum Farm

FNC16-1055	Developing Sustainable Roller Crimped Cover Cropping Systems for Corn and Soybean Production: Effects on Cover Crop Winter Hardiness, Biomass, N Mobilization, Weed Suppression and Yields	\$14,893	Dr.Billy Sammons Sammons Custom Farming
FNC16-1066	Developing Effective Alternative Pest and Disease Management Strategies for Sustainable Hop Production	\$6,472	Carla Wosoba Wosoba Farms Hops
FNC15-1000	Feed Efficiency in Cattle	\$4,836	Jeff Liston Turtle Rock Cattle
FNC15-1014	Organic No-till Pumpkins with Roller/Crimper Rye and Oat Cover Crops	\$3,751	Nelson Smith Springtown Ranch Ltd
FNC15-996	Invasive Species Control through Combined Methods of Browzing and Prescribed Burning	\$14,865	Ray Hansen Prairiewood Farms
FNC14-975	Farmer-Built No-Welding Root Washer for Small Farmers	\$13,892	Grant Schultz Versaland
FNC13-907	Pest Control in Cucurbits Using Paper Mulch and Intercropping	\$7,500	Rob Faux Genuine Faux Farm
FNC13-910	Demonstrating Russian Queen Bees Resistance to Mites to Benefit Midwest Beekeepers	\$22,491	Jason Foley Foley's Russian Bees
FNC13-912	Grass-Fed Beef Nutritional Analysis for Consumer Education and Labeling	\$22,260	Kristine Jepsen Grass Run Farm, Inc
FNC13-915	Exploring Collaboration Strategies in North Central Iowa	\$22,487	Jan Libbey One Step at a Time Gardens
FNC12-859	Evaluating Value Added Grape Seed Oil Research Project for Sustainable Viticulture	\$22,337	Douglas Grave Victorian Vineyards
FNC12-861	Economic Evaluation of Aquaponics	\$7,475	Jeff Hafner
FNC12-877	Rainwater Harvesting for Irrigation of Organic Vegetables	\$7,413	Levi Lyle LIFE- Levi's Indigenous Fruit Enterprises
FNC10-806	Growing and Propagating Giant Miscanthus Grass for Biomass Production and Natural Resource Conservation	\$5,979	Randy Kasparbauer Dennis Kasparbauer Kasparbauer family farm
FNC10-814	Maintaining Companion Planting Techniques while Mechanizing in Diverse, Small-Farm Vegetable Operations	\$6,000	Rob Faux Genuine Faux Farm
FNC10-839	Develop Sustainable Biomass Crop Production Systems that Foster Agra-Ecosystem Services	\$9,046	Norm Lust
FNC09-776	Project to Determine the Economic Viability of Black Soldier Fly Grubs as an Alternative Protein	\$5,002	Mari Holthaus Kymar Acres

FNC07-665	Farmer-Led Networking Groups to Support New Vegetable Growers	\$10,304	Susan Jutz
FNC06-624	Agro-Forestry Project: Incorporating Grass-Hay Alley Cropping With Organic Nut Production	\$5,985	Ray Hansen Prairiewood Farms
FNC05-561	Aronia Berry: A Sustainable Organic Crop	\$5,990	Vaughn Pittz Sawmill Hollow Farm
FNC05-562	Composting Corn for Heat Recovery	\$6,000	Eric Jellum Jellum Farm
FNC04-500	Value-Added Forestry Through a Cooperative	\$18,000	Greg Koether
FNC04-504	Growing Peas As a Protein Source for Organic Livestock	\$1,031	William Welsh Welsh Family Organic Farm
FNC04-514	Wood-fired Heat for an Alternative Winter Farrowing System	\$2,698	Gary Laydon
FNC04-537	Functional Value-Added Fruit and Vegetable Processing, Product Development, and Marketing for Small Farms	\$17,646	Solveig Hanson
FNC04-538	Picket Fence Creamery-Milk from Cow to Carton "Bridging the Gap Between City & Country Through Web-site Education and a Field Day Open House"	\$5,940	Jeff Burkhart
FNC03-447	Picket Fence Creamery... to Sustain a Family Farm and Preserve a Way of Life	\$6,000	Jeff Burkhart
FNC03-453	Using Flathead Catfish to Renovate Ponds Overrun with Bullheads Improving Water Quality Within and Exiting the Ponds	\$5,655	James Blankman
FNC03-459	Local Foods Buying Club	\$13,970	Michael Nash Sunflower Fields Family Farm & CSA
FNC03-463	Value Added Processing for Small Sized Chestnuts	\$2,868	Tom Wahl
FNC03-469	Evaluating Alternative Pest Management Strategies for Organic Apple Production	\$6,000	Maury Wills Wills Family Orchard
FNC03-474	Over-Wintering of Beef Cows by Grazing Standing Corn as a Cost Effective Alternative to Stockpile Grazing or Stored Feed	\$1,687	Bruce River
FNC03-486	Deep Placement of Compost	\$5,948	Eric Jellum Jellum Farm
FNC02-392	Feasibility of Grapes as a Sustainable Crop in Northwest Iowa	\$5,982	Steven King

FNC02-399	Double Cropping of Hay and Turnips	\$5,774	Steve Hermann
FNC02-405	Wholesome Harvest: The Expansion of Successful Collective Marketing	\$18,000	Wende Elliott
FNC02-431	Eastern European Wine Grape Varieties for Commercial Use in the Upper Midwest: Evaluation of Viticultural Characteristics in a Test Vineyard	\$5,520	Paul Tabor Tabor Home Vineyards and Winery
FNC02-433	Trio Cropping Demonstration- Grapes, Sweet Corn, Poultry	\$2,800	Greg Kuntz
FNC02-436	Feeding Hens for Optimum Egg Quality	\$3,060	Ben Varley
FNC01-343	An Evaluation of Interplanted / Mulched Orchard Rows	\$4,751	David Sliwa
FNC01-357	Potential Markets for the Prairie's Edge Sustainable Woods Cooperative	\$15,000	Wayne Wangsness
FNC00-293	Mulching Soybeans	\$678	Sister Sherry Pech Olm Abbey
FNC00-299	iowafood.com	\$2,000	Wende Elliott
FNC00-311	Learning and Evaluating Holistic Animal Health Practices	\$2,800	Susan Zacharakis Jutz
FNC00-320	Sheep and Lamb Leather Marketing	\$4,700	Tom Cory
FNC00-326	GROWN Locally Grower's Cooperative Website	\$9,400	Michael Nash Sunflower Fields Family Farm & CSA
FNC99-255	Pasture Aeration to Improve Production	\$4,150	Rex Wilhelm
FNC99-261	Oak Savanna Restoration: Diversity in a Rotational Grazing System	\$3,564	Don Adams
FNC99-289	Crop-bearing Windbreak/Shelterbelt Project	\$8,970	Tom Wahl
FNC98-205	Deer Damage Abatement Research Project	\$3,627	Gary Mensinger
FNC98-218	Specialty Meats Marketing Project at Sycamore Street Market	\$9,984	Phil Hueneke
FNC98-223	Establishing On-farm Management Systems for Grass-fed Beef	\$4,980	Doug Erickson

FNC98-226	Chariton Valley Beef Industry Initiative: Producer Cost-share for Technology Adoption and Market Access	\$9,875	Mike Hunter Chariton Valley Beef
FNC98-227	Chariton Valley Beef Industry Initiative: Producer Cost Share for Technology Adoption and Market Access	\$9,875	Mike Hunter Chariton Valley Beef
FNC98-233	Organic Livestock Marketing Coop	\$10,000	Ronald Rosmann
FNC98-242	Kura Clover Cover Crop Demonstration	\$1,290	Dan Byrnes
FNC98-246	Prairie Wetlands	\$2,836	David Zahrt
FNC97-173	Feasibility of Corn Stalk Ash as a Fertilizer Source	\$4,974	David Reinig
FNC97-175	Converting Woodlands into a Profitable Shade Plant Nursery	\$2,925	Sylvia DeWitt
FNC97-184	Trees for Food	\$5,000	Mary Carter
FNC96-130	Organic Farming Mentor Project	\$10,000	Francis Thicke
FNC96-131	Comparison of Finishing Pig Performance in a Hoophouse Building vs. a Conventional, Slatted, Curtain-Side Building	\$1,775	Steve Weis
FNC96-137	Non-chemical Suppression of Perennial Weeds	\$9,875	Tom Frantzen
FNC96-138	Iowa Network for Community Agriculture: Forming a Network to Support Producer Initiatives for Local Food Systems	\$9,850	Jeff Hall
FNC96-146	Rural Action Agricultural Center	\$9,580	Karen Varley
FNC96-148	Comprehensive Integrated Agroforestry Project	\$4,838	Tom Wahl
FNC95-095	Intensive Grazing Economic Study	\$4,545	Marshall Pitcher
FNC95-100	Suitability of Hardy, Non-native Forage-adapted Meat Sheep to North American Management Intensive Grazing System	\$5,000	Stephanie Mitcham
FNC95-124	Evaluation of Kura Clover in Intensive Grazing Systems	\$538	David Kendell

FNC95-127	Converting Continuous Grazing to Management Intensive Grazing: Loess Hills Restoration	\$3,399	David Zahrt
FNC94-060	Continuing Study Relating Potassium Uptake to Manure and Tillage	\$2,500	Richard Thompson Practical Farmers of Iowa
FNC94-084	Evaluation of an Alternative Farming Concept Strip Cropping and Pasture-Raised Hogs	\$1,550	Tom Frantzen
FNC93-031	Utilizing a Portable Scale to Evaluate Crop and Livestock Production	\$1,388	Tom Frantzen
FNC93-039	Potassium Uptake in Relation to Manure Application and Tillage Practices	\$5,000	Richard Thompson Practical Farmers of Iowa
FNC93-042	Hazelnuts for Windbreak and Alternative Cash Crop	\$575	Michael Natvig
FNC92-001	Evaluation of Various Legumes for use as Green Manure Cover Crops	\$2,715	Phil Hueneke
FNC92-002	Evaluation of Ridge Tilling with and without Herbicides	\$3,885	Ronald Rosmann

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE Support	Project Leaders
GNC21-318	Managing teff as a living mulch for organic acorn squash in mesotunnel systems	\$14,962	Dr.Mark Gleason Iowa State University Sharon Badilla Iowa State University
GNC21-319	Soil Health Indicators in Areas Affected by Pipeline Installation	\$14,964	Dr.Bradley Miller Iowa State University Luis Bentancor Iowa State University
GNC21-322	Evaluating the soil block technique for organic vegetable transplant production	\$14,926	Dr.Ajay Nair Department of Horticulture, Iowa State University Anne Carey Iowa State University
GNC21-330	The Effects of Collective Trauma on Iowa Farmers	\$13,618	Dr.J. Arbuckle Iowa State University Department of Sociology Chris Morris Iowa State University
GNC19-291	A Comparative Analysis of Iowa Watershed Organizations: Structure, Function, and Social Infrastructure	\$15,000	Dr.Monica Haddad Iowa State University Andrea Wagner Iowa State University
GNC18-257	Linking Agricultural Production and Conservation Through In-field Prairie Plantings	\$10,781	Dr.Matt Liebman Iowa State University Lydia English Practical Farmers of Iowa
GNC18-261	The Effects of Two Winter Rye Cover Crop Seeding Methods on Corn Disease, Growth and Development	\$11,817	Alison Robertson Iowa State University Sarah Kurtz Iowa State University

GNC18-266	How Much Does Diversification Improve Soil Water Holding Capacity?	\$11,543	Dr.Matt Liebman Iowa State University Virginia Nichols Iowa State University
GNC17-236	Integration of poultry and cover crops for soil health in vegetable production	\$11,977	Dr.Ajay Nair Department of Horticulture, Iowa State University Moriah Bilenky Iowa State University
GNC16-221	Factors Driving Grain Producers to Convert to Organic Farming Systems	\$12,000	Dr.Nancy Grudens-Schuck Iowa State University Guang Han Iowa State University
GNC16-222	Determining Whether Cover Crops Affect Soybean Cyst Nematode Population Densities and can be Used for Integrated Pest Management	\$11,976	Dr.Greg Tylka Iowa State University Chelsea Harbach Iowa State University
GNC15-216	Optimizing Organic Oat (Avena sativa) Production and Profitability in Iowa	\$9,985	Dr.Mary Wiedenhoeft Iowa State Univ David Weisberger Iowa State University
GNC14-189	No-till and Strip-till Systems for Enhanced Soil Health and Profitability in Organic Broccoli and Pepper Production	\$9,946	Dr.Ajay Nair Department of Horticulture, Iowa State University Dana Jokela Sogn Valley Farm
GNC14-193	Diversification of Corn-Soybean Rotations with Cereal Rye/Red Clover: Impacts on Nitrogen Availability in Corn	\$9,144	Dr.Matt Liebman Iowa State University William Osterholz Iowa State University
GNC13-166	Effects of Biochar on Soil Nutrient Retention and Microbial Communities in Vegetable Cropping Systems	\$9,367	Dr.Ajay Nair Department of Horticulture, Iowa State University Brandon Carpenter Iowa State University
GNC13-176	Suitability of Winter Canola (Brassica napus) for Enhancing Summer Annual Crop Rotations in Iowa	\$10,000	Dr.Mary Wiedenhoeft Iowa State Univ Rafael Martinez-Feria Iowa State University
GNC12-156	Needs Assessment for the Establishment of Food Hubs Using Geographic Information Systems	\$9,902	Dr.Cynthia Haynes Iowa State University Jennifer Boussetot Iowa State University Kevin Duerfeldt Iowa State University
GNC10-119	Evaluating Canola and Winter Cover in Alternative Cropping Systems in Iowa	\$9,922	Dr.Mary Wiedenhoeft Iowa State Univ Stefan Gailans Iowa State University
GNC10-132	Relationships Between Cucurbit Crop Pollinators and Landscape Diversity	\$10,000	Dr.Mark Gleason Iowa State University Amy Alesch Iowa State University
GNC10-136	Evaluating Methods for Making Native Plants Productive and Profitable on the Iowa Landscape	\$9,979	Dr.Mary Wiedenhoeft Iowa State Univ Rachael Cox Ohde Iowa State University
GNC09-103	Producer Education of Nitrate Reduction Strategies and Evaluation of Acceptance	\$9,953	Dr.Matthew Helmers Iowa State University Dr.Laura Christianson University of Illinois

GNC09-105	Farming for Ecosystem Services: Visualization of Alternative Working Landscapes	\$9,997	Dr.Lisa Schulte Moore Iowa State University Drake Larsen Iowa State University
GNC09-107	Incorporating Native Prairies into Working Farm Landscapes	\$9,965	Emily Heaton Dr.Matt Liebman Iowa State University Meghann Jarchow Iowa State University
GNC09-111	Corn Residue Removal Impacts on Soil, Water, and Air Resources for Biofuel Production	\$10,000	Dr.Mahdi Al-Kaisi Iowa State University Jose Guzman Iowa State University
GNC09-112	Extended-duration row covers to suppress bacterial wilt on muskmelon: optimizing a new management strategy for organic growers	\$9,976	Dr.Mark Gleason Iowa State University Erika Saalau Rojas Iowa State University
GNC08-089	Farm to ISU: Helping Iowa State University Dining Staff Understand and Grow the Local Food Purchasing Program	\$9,132	Shashi Sathisan-Nambisan Iowa State University Susan DeBlieck Iowa State University
GNC07-078	Energy use and nutrient cycling in pig production systems	\$9,969	Mark Honeyman Iowa State University Peter Lammers Iowa State University
GNC07-085	Small Meat Lockers Working Group	\$9,131	Dr.Cornelia Butler Flora Iowa State University Arion Thiboumery North Central Regional Center forRural Development
GNC06-060	New Partners for Sustainable Agriculture	\$10,000	Dr.Nancy Grudens-Schuck Iowa State University Jean Eells North Central Regional Center forRural Development
GNC06-061	Emission of the greenhouse gas nitrous oxide (N2O) from riparian forest buffers, warm-season and cool-season grass filters and crop fields.	\$9,990	Richard Schultz Iowa State University Dong-Gill Kim Iowa State University
GNC05-041	Agricultural Landscape Design through Participatory Modeling: Collaboration among Diverse Stakeholder Groups	\$9,998	Dr.Lisa Schulte Moore Iowa State University Ryan Atwell Natural Resource Ecology, Iowa State University
GNC05-049	Assessing the Feasibility of Entry into Entrepreneurial Agriculture for Recent Immigrants in Marshalltown, Iowa	\$6,891	Dr.Jan Flora Iowa State University Hannah Lewis Iowa State University
GNC05-055	Illinois bundleflower: a perennial multiple purpose third crop for Iowa	\$9,962	Dr.E. Charles Brummer University of California - Davis Valentin Picasso University of Wisconsin - Madison
GNC04-029	Transferring Information from Research lab to Farm Field: Evaluation of On-Farm Soil Quality Tests Kits for Grower Use in Sustainable Strawberry Production	\$9,988	Gail Nonnecke ISU Horticulture Department Craig Dilley ISU Horticulture Department
GNC03-013	Restoring Organic Agri-Culture: Resource Conservation, On-Farm Recycling, and Alternative Marketing Taught though Farmers and Farm Organizations	\$9,594	Ricardo Salvador Parker Forsell Iowa State University

GNC03-018	Developing Educational Tools to Facilitate Systems Thinking in Sustainable Agriculture in the North Central Region	\$9,862	Dr.Matt Liebman Iowa State University Andrew Heggenstaller Iowa State University
GNC03-022	Are Livestock Grazing and Healthy Streams Compatible? Livestock Grazing Systems that Reduce Erosion and Improve Stream Bank Stability	\$10,000	Richard Schultz Iowa State University George Zaimes Iowa State University
GNC02-007	Effect of Alternative Fungicides on Alternaria solani Control and Productivity of Organic Tomatoes	\$7,500	Hank Tabor Kathleen Delate Iowa State University Karen Joslin Warren Wilson College

ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE Support	Project Leaders
ONC22-106	Urban and Rural Mentorships for Aspiring and Beginning Women Farmers	\$40,000	Wren Almitra Women, Food & Agriculture Network Juliann Salinas WFAN
ONC22-107	The Kitchen: Where Food Businesses Grow in North IA	\$40,000	Marie Boyd Healthy Harvest of North Iowa
ONC22-110	Exploring Iowa Agritourism Ventures	\$40,000	Kendra Meyer Iowa State University Extension & Outreach
ONC21-092	Harvesting Our Potential: Growing Skills, Confidence and Sustainability	\$40,000	Juliann Salinas WFAN Stephanie Enloe Women Food and Agriculture Network
ONC21-091	Seed Rematriation Using a Participatory Conservation Model	\$40,000	Heather Haynes Seed Savers Exchange
ONC20-070	Full Trucks for Higher Profits: Transportation Collaboration among Farmers and Food Hubs in the Midwest	\$39,930	Jason Grimm Iowa Valley RC&D
ONC20-071	Seed Rematriation Using a Participatory Conservation Model	\$40,000	Cindy Goodner
ONC19-059	Women farmland owners as sustainability ambassadors: educating farmers and other landowners to make changes	\$39,832	Ahna Kruzic Women, Food and Agriculture Network Juliann Salinas WFAN
ONC19-056	Hazelnut-Finished Pork in the Upper Midwest: A New High-Value Product From A Sustainable Production System	\$39,777	Jason Fischbach Bayfield County UW-Extension
ONC19-055	SILT Development and Implementation of Iowa Landowners Guide to Sustainable Food Crops	\$33,365	Suzan Erem, Ms. Sustainable Iowa Land Trust (SILT)
ONC17-031	Agronomy in the Field: A Women's Cohort for Increasing Capacity of Agronomic and Conservation Principles	\$29,999	Angela Rieck-Hinz Iowa State University
ONC16-013	Collaborative Food Supply Chains for Iowa's Farmers	\$30,000	Jason Grimm Iowa Valley RC&D

YOUTH EDUCATOR GRANTS

Project #	Project Title	SARE Support	Project Leaders
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YENC20-153	Establishing an Uncommon Orchard with Native Plant Understory	\$4,000	Mark Quee Scattergood Friends School
YENC18-125	Paddocks, Pastures and People	\$2,000	Amy Powell Iowa State University / Extension and Outreach
YENC18-132	Ag Arts Partnership for Southwest Iowa	\$2,000	Mary Goettsch Golden Hills RC&D
YENC17-114	Fun With Food Summer Camp for 9-12 year olds at Central College in Pella, Iowa	\$2,000	Thomas Johnson Central College
YENC15-092	Erosion Control and Pollinator Habitat through Perennial Plantings on Scattergood Friends School Farm	\$1,991	Mike Severino Scattergood Friends School
YENC14-077	Integrating High Tunnel Vermicomposting in a High School Science Curriculum	\$2,000	Mark Quee Scattergood Friends School
YENC12-043	Expanding the Sustainable Agriculture Components of Real Soil, Real Food, A Real Difference	\$2,000	Diane Weiland The Wallace Centers of Iowa
YENC12-045	Shiawassee Camper's Sustainable Garden and Sustainable Agriculture Education	\$2,000	Andrea Wendt Shiawassee Conservation District Melissa Higbee Shiawassee Conservation District
YENC10-023	Green Manure vs. Brown Manure in an Organic Vegetable System	\$1,991	Mark Quee Scattergood Friends School
YENC09-022	Sustainable Food Production Education at a Youth Residential Treatment Center	\$2,000	Belinda Meis Lutheran Services in Iowa, Beloit
YENC08-006	Taproot Sustainable Farming Experience for Children	\$1,560	Zac Wedemeyer Taproot Nature Experience

**Total funding from the USDA SARE program to
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\$8,712,749**



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

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