



AGRICULTURE PROJECTS FUNDED IN IOWA

by USDA's
Sustainable Agriculture Research and Education (SARE) Program
1988-2019

Iowa has been awarded \$8,414,615 grants to support 210 projects, including but not limited to, 53 research and/or education projects, 24 professional development projects and 82 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
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	Ashley Kittle Tallgrass Prairie Center
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
LNC18-402	A Decision Support Tool for Adaptive Management of Cereal Rye in No-till Organic and Conventional Soybeans	\$199,507	Martin Williams
LNC18-404	Optimizing mesotunnel systems for sustainable production of cucurbit crops	\$193,962	Dr.Mark Gleason Iowa State University
LNC18-409	Redefining the Field Edge	\$199,351	Dr.Mark Licht Department of Agronomy, Iowa State University
LNC16-386	Growing Profitable, Sustainable Farming Businesses with Beginning Refugee Farmers in Central Iowa	\$200,000	Nicholas Wuertz Lutheran Services in Iowa
LNC15-375	Economic Evaluation of Cover Crops in Midwest Row Crop Farming	\$183,969	Dr.Alejandro Plastina Iowa State University
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
LNC14-362	Cover Crops and Strip Tillage to Promote Soil Quality, Environmental Sustainability, Food Safety, and	\$198,353	Dr.Ajay Nair Department of Horticulture, Iowa State University

	Profitability in Cucurbit Cropping Systems		
<u>LNC13-350</u>	Integrating Perimeter Trap Crops and Row Covers into Cucurbit-crop Farming Systems	\$199,250	Dr.Mark Gleason Iowa State University
<u>LNC13-352</u>	Improved Cover Crop Options for Corn Belt Farmers	\$197,608	Dr.Andy Lenssen Department of Agronomy, Iowa State University
<u>LNC12-346</u>	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
<u>LNC10-317</u>	Developing a Conservation Education and Outreach Program Targeted at Women Farmland Owners in IA, NE and WI	\$81,766	Sherri Dugger Women, Food & Agriculture Network
<u>LNC10-323</u>	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
<u>LNC09-314</u>	Mixing Reconstructed Prairie with Cropland to Balance Food and Biofuel Production with Environmental Quality	\$174,722	Dr.Matthew Helmers Iowa State University
<u>LNC08-291</u>	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
<u>LNC08-293</u>	Bioenergy and Diversity from Sustainable Systems and Crops	\$138,638.35	Sarah Carlson Practical Farmers of Iowa Dr.Rick Exner Practical Farmers of Iowa
<u>LNC07-284</u>	Implementing biointensive pest management and evaluating hard cider manufacturing to increase sustainability of apple production	\$129,427	Dr.Mark Gleason Iowa State University
<u>LNC07-289</u>	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
<u>LNC06-271</u>	Working Alternatives to Re-cropping Marginal Lands	\$100,000	Chris Nelson Southern Iowa Forage & Livestock Committee Melissa Maynes Southern Iowa Forage & Livestock
<u>LNC05-257</u>	Double Cropping Field Peas Offer Economic Sustainability for Midwest Swine Producers	\$109,651	Dr.Jim Fawcett Iowa State University
<u>LNC05-259</u>	Practical Biodiversity: Keeping Oat on Farms by Helping Farmers Enhance Disease Resistance	\$111,548	Emily Heaton
<u>LNC05-255</u>	Improving Soil Quality During and After Organic Transition	\$145,509	Kathleen Delate Iowa State University

<u>LNC04-241</u>	Teaching Tomorrow's Leaders in Sustainable Agriculture	\$57,969	Robert De Haan Dordt College
<u>LNC04-242</u>	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
<u>LNC03-230</u>	Research Alliance for Farrowing, the Weak Link in Alternative Swine Systems	\$149,759	Dr.Rick Exner Practical Farmers of Iowa
<u>LNC02-213</u>	Implementing Sustainable Management of Muskmelon Diseases, Weeds, and Insect Pests in Partnership with Iowa Growers	\$95,441	Dr.Mark Gleason Iowa State University
<u>LNC01-198.1</u>	Completion of Soil Fertility Paradigms Evaluated through Collaboration On-Farm and On-Station	\$20,288	Dr.Rick Exner Practical Farmers of Iowa
<u>LNC00-167</u>	Southeast Iowa Agroforestry Demonstration	\$9,650	Christa Perkins Geode RC&D/USDA-NRCS
<u>LNC00-171</u>	Perennial Grass Covers Affect Long-Term Soil Quality	\$96,100	James Raich Iowa State University
<u>LNC00-164</u>	Technology Transfer of Grazing System Components to Producers Implementing Sustainable Rotational Grazing Systems	\$24,587	Mark D. Boswell Southern Iowa Forage and Livestock Committee
<u>LNC00-166</u>	Expanding local markets through linking institutional food buyers to local farmers and processors in Northeast Iowa	\$43,000	Kamyar Enshayan University of Northern Iowa
<u>LNC99-160</u>	Integrating Organic Soybean Production following Conservation Reserve Program (CRP) Land into Sustainable Farming Systems	\$27,500	Kathleen Delate Iowa State University
<u>LNC98-132</u>	Producer-Owned Cooperative to Process and Market Sustainably Produced Pork	\$23,590	Dennis Smith Iowa Farmers Union
<u>LNC98-138</u>	Soil Fertility Paradigms Evaluated through Collaboration On-Farm and On-Station	\$59,027	Dr.Rick Exner Practical Farmers of Iowa
<u>LNC97-114</u>	Combining Landscape and Augmentative Biological Control to Suppress European Corn Borer Populations in Sustainable Low-Input Systems	\$92,740	Leslie Lewis Iowa State University
<u>LNC96-107</u>	Integration of Indigenous Knowledge of Sustainable Agricultural Systems	\$15,000	Dr.Cornelia Butler Flora Iowa State University
<u>LNC96-097</u>	The Adams County CRP Research and Demonstration Project	\$52,000	Douglas Brown Okey Vernon First National Bank
<u>LNC95-080</u>	Importing a Sustainable Model of Feeder Pig Production from Sweden: A	\$81,513	Mark Honeyman Iowa State University

	Cooperative Project		
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
LNC92-051	Training for Forage Production and Intensive Grazing on Highly Erodible Land After CRP Contracts	\$12,445	Bill Bartenhagen Southern Iowa Forage Committee
LNC92-044	On-Farm Research and Demonstration of Ridge Tillage for Sustainable Agriculture	\$75,867	Dr.Rick Exner Practical Farmers of Iowa
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
ENC19-180	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

<u>ENC19-176</u>	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
<u>ENC18-168</u>	Growing Organic Expertise in Iowa	\$75,000	Rosalyn Lehman
<u>ENC17-161</u>	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
<u>ENC16-153</u>	Building capacity of agricultural educators to grow sustainable food systems in Iowa	\$74,742	Craig Chase Iowa State University
<u>ENC16-155</u>	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
<u>ENC16-156</u>	Increasing Conservation Investment, Cover Crops and Third Crops in Iowa through Farmer-Led Educational Programs	\$73,447	Sally Worley Practical Farmers of Iowa
<u>ENC13-137</u>	Women Caring for the Land: Improving Conservation Outreach to Non-operator Female Farmland Owners	\$61,054	Sherri Dugger Women, Food & Agriculture Network
<u>ENC12-132</u>	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
<u>ENC12-136</u>	Building Capacity for Climate Extension	\$65,934	Dr.Loïs Wright Morton Iowa State University
<u>ENC11-121</u>	Community Capacity Building to Strengthen the Links within the Iowa Local Foods Value Chain	\$42,472	Linda Naeve Iowa State University Extension and Outreach
<u>ENC11-123</u>	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
<u>ENC08-101</u>	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
<u>ENC07-094</u>	Impact of Biomass Removal for Bioenergy on Soil and Water Quality	\$50,000	Dr.Mahdi Al-Kaisi Iowa State University
<u>ENC02-070</u>	Training for New Food and Farming Ventures: Iowa Café Part II	\$74,064	Craig Chase Iowa State University
<u>ENC01-059</u>	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	\$53,536.84	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
ENC97-026	Multi-Agency On-Farm Sustainable Agriculture Training	\$15,335	Richard Thompson Practical Farmers of Iowa
ENC97-020	Legal Guide for Farm Marketers	\$36,250	Neil Hamilton Drake University Law School
ENC95-010	Building Collaborative Partnerships with Farming Systems Research and Extension	\$20,680	Dr.Cornelia Butler Flora Iowa State University

FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
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.	\$8,820	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
FNC13-910	Demonstrating Russian Queen Bees Resistance to Mites to Benefit Midwest Beekeepers	\$22,490.50	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
FNC13-907	Pest Control in Cucurbits Using Paper Mulch and Intercropping	\$7,500	Rob Faux Genuine Faux Farm
FNC12-859	Evaluating Value Added Grape Seed Oil Research Project for Sustainable Viticulture	\$22,336.96	Douglas Grave Victorian Vineyards
FNC12-861	Economic Evaluation of Aquaponics	\$7,475.22	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	\$9,046.39	Norm Lust
FNC09-776	Project to Determine the Economic Viability of Black Soldier Fly Grubs as an Alternative Protein	\$5,001.90	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	\$5,985	Ray Hansen Prairiewood Farms

	Nut Production		
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
FNC04-504	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
FNC04-500	Value-Added Forestry Through a Cooperative	\$18,000	Greg Koether
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
FNC96-148	Comprehensive Integrated Agroforestry Project	\$4,838	Tom Wahl
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
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
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
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
FNC92-002	Evaluation of Ridge Tilling with and without Herbicides	\$3,885	Ronald Rosmann
FNC92-001	Evaluation of Various Legumes for use as Green Manure Cover Crops	\$2,715	Phil Hueneke

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
GNC19-291	A Comparative Analysis of Iowa Watershed Organizations: Structure, Function, and Social Infrastructure	\$15,000	Andrea Wagner Iowa State University Dr. Monica Haddad Iowa State University
GNC18-257	Linking Agricultural Production and Conservation Through In-field Prairie Plantings	\$10,781	Matt Liebman Iowa State University Lydia English Iowa State University
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 of Science and Technology
GNC18-266	How Much Does Diversification Improve Soil Water Holding Capacity?	\$11,543	Matt Liebman Iowa State University Virginia Nichols Iowa State University
GNC17-236	Integration of poultry and cover crops for	\$11,977	Dr. Ajay Nair

	soil health in vegetable production		Department of Horticulture, Iowa State University Moriah Bilenky Iowa State University
<u>GNC16-222</u>	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
<u>GNC16-221</u>	Factors Driving Grain Producers to Convert to Organic Farming Systems	\$12,000	Dr.Nancy Grudens-Schuck Iowa State University Guang Han Iowa State University
<u>GNC15-216</u>	Optimizing Organic Oat (Avena sativa) Production and Profitability in Iowa	\$9,985	Dr.Mary Wiedenhoef Iowa State Univ David Weisberger Iowa State University
<u>GNC14-189</u>	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
<u>GNC14-193</u>	Diversification of Corn-Soybean Rotations with Cereal Rye/Red Clover: Impacts on Nitrogen Availability in Corn	\$9,144	Matt Liebman Iowa State University William Osterholz Iowa State University
<u>GNC13-166</u>	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
<u>GNC13-176</u>	Suitability of Winter Canola (Brassica napus) for Enhancing Summer Annual Crop Rotations in Iowa	\$10,000	Dr.Mary Wiedenhoef Iowa State Univ Rafael Martinez-Feria Iowa State University
<u>GNC12-156</u>	Needs Assessment for the Establishment of Food Hubs Using Geographic Information Systems	\$9,902	Dr.Cynthia Haynes Iowa State University Jennifer Bousset Iowa State University Kevin Duerfeldt Iowa State University
<u>GNC10-119</u>	Evaluating Canola and Winter Cover in Alternative Cropping Systems in Iowa	\$9,922	Dr.Mary Wiedenhoef Iowa State Univ Stefan Gailans Iowa State University
<u>GNC10-132</u>	Relationships Between Cucurbit Crop Pollinators and Landscape Diversity	\$10,000	Dr.Mark Gleason Iowa State University Amy Alesch Iowa State University
<u>GNC10-136</u>	Evaluating Methods for Making Native Plants Productive and Profitable on the Iowa Landscape	\$9,979.42	Dr.Mary Wiedenhoef Iowa State Univ Rachael Cox Ohde Iowa State University
<u>GNC09-103</u>	Producer Education of Nitrate Reduction Strategies and Evaluation of Acceptance	\$9,953	Dr.Matthew Helmers Iowa State University Dr.Laura Christianson University of Illinois
<u>GNC09-105</u>	Farming for Ecosystem Services: Visualization of Alternative Working	\$9,996.50	Dr.Lisa Schulte Moore Iowa State University

	Landscapes		Drake Larsen Iowa State University
<u>GNC09-107</u>	Incorporating Native Prairies into Working Farm Landscapes	\$9,965	Emily Heaton Matt Liebman Iowa State University Meghann Jarchow Iowa State University
<u>GNC09-111</u>	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
<u>GNC09-112</u>	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
<u>GNC08-089</u>	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
<u>GNC07-078</u>	Energy use and nutrient cycling in pig production systems	\$9,969	Mark Honeyman Iowa State University Peter Lammers Iowa State University
<u>GNC07-085</u>	Small Meat Lockers Working Group	\$9,131	Dr.Cornelia Butler Flora Iowa State University Arion Thiboumery North Central Regional Center for Rural Development
<u>GNC06-060</u>	New Partners for Sustainable Agriculture	\$10,000	Dr.Nancy Grudens-Schuck Iowa State University Jean Eells
<u>GNC06-061</u>	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
<u>GNC05-041</u>	Agricultural Landscape Design through Participatory Modeling: Collaboration among Diverse Stakeholder Groups	\$9,998.38	Dr.Lisa Schulte Moore Iowa State University Ryan Atwell Natural Resource Ecology, Iowa State University
<u>GNC05-049</u>	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
<u>GNC05-055</u>	Illinois bundleflower: a perennial multiple purpose third crop for Iowa	\$9,962	Charles Brummer University of California - Davis Valentin Picasso University of Wisconsin - Madison
<u>GNC04-029</u>	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 Dille ISU Horticulture Department
<u>GNC03-013</u>	Restoring Organic Agri-Culture: Resource Conservation, On-Farm Recycling, and Alternative Marketing	\$9,594	Ricardo Salvador Parker Forsell Iowa State University

	Taught though Farmers and Farm Organizations		
GNC03-018	Developing Educational Tools to Facilitate Systems Thinking in Sustainable Agriculture in the North Central Region	\$9,862	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
ONC19-059	Women farmland owners as sustainability ambassadors: educating farmers and other landowners to make changes	\$39,832	Sherri Dugger Women, Food and Agriculture Network
ONC19-055	SILT Development and Implementation of Iowa Landowners Guide to Sustainable Food Crops	\$33,365	Suzan Erem Sustainable Iowa Land Trust (SILT)
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
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
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	\$2,000	Diane Weiland

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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

PDP STATE PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
NCIA19-001	Iowa 2019-20 SARE plan of work	\$130,000	Christa Hartsook Iowa State University
NCIA17-001	Iowa Annual State Report	\$110,000	Christa Hartsook Iowa State University

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\$8,414,615**



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

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