



AGRICULTURE PROJECTS FUNDED IN MINNESOTA

by USDA's
Sustainable Agriculture Research and Education (SARE) Program
1988-2018

Minnesota has been awarded \$11,299,137 grants to support 281 projects, including but not limited to, 69 research and/or education projects, 30 professional development projects and 124 producer-led projects. Minnesota has also received additional SARE support through multi-state projects.

State Sustainable Agriculture Coordinators:

Kate Seager
Minnesota Institute for Sustainable Agriculture
kseager@umn.edu
(612) 625-8235

Wayne Martin
NC-SARE
marti067@umn.edu
(612) 625-6224

RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
LNC18-406	Intercropping the Perennial Grain Kernza® with Legumes for Sustained Economics and Environmental Benefits	\$199,946	Jacob Jungers
LNC17-392	Collaborative Evaluation of Ecosystem Services Provided by Urban Agricultural Best Management Practices in the Twin Cities Metropolitan Area	\$198,529	Dr.Nicolas Jelinski University of Minnesota
LNC17-395	Deep Winter Food Production in the North Central Region	\$196,423	Greg Schweser Regional Sustainable Development Partnerships
LNC17-398	Winter Camelina: New cash crop opportunities for sustainable sugar beet production	\$199,999	M. Scott Wells
LNC16-379	Evaluating Measurement Techniques of Pasture Productivity to Document Benefits of Enhanced Grazing Systems	\$109,771	Dr.Rod Greder University of Minnesota Extension
LNC14-360	Reweaving the Economic Fabric to Support Sustainable Farms and Ag-based Businesses	\$199,634	Jan Joannides Renewing the Countryside
LNC14-364	Bringing the Benefits of Legume Cover Crops to Northern Midwest Climates	\$114,497	Dr.Julie Grossman University of Minnesota
LNC13-353	Promoting Sustainable Biological Control of the Soybean Aphid by Examining the Effect of Biodiversity on Releases of the Parasitoid Wasp <i>Aphelinus glycinis</i>	\$178,558	Dr.George Heimpel University of Minnesota
LNC12-342	When Farming Reality Doesn't Match the Business Plan	\$165,293.60	Kent Solberg Sustainable Farming Association

LNC11-336	Organic Beans and Peas: Nutritious and Gluten-free Local Foods	\$199,217	Dr.Craig Sheaffer University of Minnesota
LNC11-334	Connecting Sustainable Farmers to Emerging Health Care Markets	\$162,952	Anna Claussen Institute for Agriculture and Trade Policy Karen Quiroz Institute for Agriculture and Trade Policy
LNC10-320	Building Capacity for Local Foods Infrastructure Development	\$171,079	Dr.Kathryn Draeger University of Minnesota Regional Sustainable Development Partnerships Greg Schweser Regional Sustainable Development Partnerships
LNC10-325	Agripreneur Training Center	\$166,900	Kat Vann Main Street Project Edward Ritchie Main Street Project
LNC10-328	Developing Hazelnut Germplasm for the Upper Midwest	\$175,000	Dr.Lois Braun Research Associate
LNC09-313	Farmer field school approach to increasing cover crop adoption in Iowa and Minnesota	\$174,295.73	Sarah Carlson Practical Farmers of Iowa
LNC09-315	Sustainable Inquiry Research and Education Network (SIREN)	\$156,336	Pauline Nickel SW Research & Outreach Center
LNC09-316	The role of imidacloprid systemic insecticide on colony collapse disorder of honey bees and decline of bumble bee pollinators	\$175,000	Dr.Vera Krischik UMinnesota
LNC08-301	Indigenous Corn Restoration Project	\$150,000	Winona LaDuke White Earth Land Recovery Project
LNC08-294	Antibiotic Uptake by Vegetable Crops from Manure-Applied Soils	\$139,420	Dr.Satish Gupta University of Minnesota
LNC08-296	Behavior Manipulation of the Multicolored Asian Lady Beetle in Midwest Vineyards: Novel Repellants and Attractants for a Sustainable IPM "Push-pull" Strategy	\$114,030	Eric Burkness University of Minnesota
LNC06-275	Alternative Bedding and Management of Composting bedded Pack Dairy Barns	\$150,000	Jeffrey Reneau University of Minnesota
LNC05-263	Ag Diversification on the Airwaves – Diversification Broadcasts to Inform and Inspire	\$124,535	Meg Moynihan Minnesota Department of Agriculture
LNC05-264	Reducing Pesticide Use in Honey Bee Colonies through Sound Sampling and Treatment Procedures	\$150,000	Marla Spivak University of Minnesota
LNC04-246	Green Eating and Vacationing in Minnesota: Eat and Play to Support Sustainable Agriculture	\$150,000	Jan Joannides Renewing the Countryside

LNC04-248	Traditional Community Agriculture Restoration	\$150,000	Winona LaDuke White Earth Land Recovery Project
LNC03-232	“Livestock Your Way” Series Publications: Producer Guides to Goal Setting and Management Options for Dairy and Poultry Enterprises in the Upper Midwest	\$73,500	Meg Moynihan Minnesota Department of Agriculture
LNC03-226	Enhancing Pasture Productivity by Improving Winter Survival of Perennial Ryegrass	\$149,998	Paul Peterson University of Minnesota
LNC03-229	Experiential Learning Opportunities for Graduate and Undergraduate Students	\$60,000	Helene Murray University of Minnesota
LNC03-231	Microbial Safety of Organic Fruits and Vegetables	\$139,650	Francisco Diez-Gonzalez University of Minnesota
LNC02-202	A Sustainable Approach to Reducing Pesticide and Antibiotic Use in Honey Bee Colonies	\$99,600	Marla Spivak University of Minnesota
LNC02-204	Policy Research and Development to Support Multiple Benefits from Agriculture: Phase II	\$95,350	Carolyn van Schaik Land Stewardship Project
LNC02-209	New Immigrant Agriculture Project	\$69,000	Glen Hill Minnesota Food Association
LNC02-214	The Occurrence of Antibiotic Resistant Bacteria in Manure, Manure-Applied Fields, and Pets on the Farm	\$99,835	Dr.Satish Gupta University of Minneota
LNC02-219	Restoring Native Perennial Legumes for Forage, Feed and Food	\$100,000	Donald Wyse University of Minnesota
LNC01-188	Evaluating Open-Pollinated Corn Varieties	\$75,300	Zeno Wicks, III South Dakota State University
LNC01-192	Beginning Farmer Program: Evaluation and Expansion	\$96,430	Karen Stettler Land Stewardship Project
LNC00-168	Phosphorus Mobilization and Weed Suppression by Buckwheat.	\$50,000	Jim Stordahl University of Minnesota Extension Service
LNC00-177	Managed Intensive Rotational Grazing for Farms Affected by Urban Growth	\$13,629	Julie Klocker
LNC00-179	Assessing soil quality changes in alternative and conventional cropping systems	\$93,300	Deborah Allan University of Minnesota
LNC00-200	Getting a Handle on the Barriers to Financing Sustainable Agriculture	\$69,043	Carolyn van Schaik Land Stewardship Project

LNC99-155	Native Perennial Legumes: New Species for Grazing Systems	\$100,000	Nancy Ehlike University of Minnesota
LNC99-161.1	People to People: Enhancing the Quality of Life and Profitability of Family Farms	\$58,000	Lynda Converse Sustainable Farming Assn of Central Minnesota
LNC99-145	Presenting NCR SARE Research Results in the Context of Whole Farm Planning	\$85,000	Diane Jensen The Minnesota Project John Lamb The Minnesota Project Inc
LNC99-146	Economic Analysis and Policy Development To Support Multiple Social, Economic and Environmental Benefits Produced by Farms	\$92,840	Mara Krinke Land Stewardship Project George Boody Land Stewardship Project
LNC99-149	Strategies for Conversion to Organic Production Systems	\$96,472	Elizabeth Dyck University of Minnesota, Southwest Experiment Station
LNC99-152.1	A Sustainable Approach to Controlling Varroa Mites of Honey Bees	\$86,286	Marla Spivak University of Minnesota
LNC98-128	Congregationally Supported Agriculture	\$38,900	Phillip Arnold Center Chapter Sustainable Farming Assn
LNC98-133	Strengthening Links Between Meat Producers, Processors, and Consumers	\$6,000	Jenifer Buckley Sustainable Farming Association of Northeast Minnesota
LNC98-134	Perennial Legumes for Sustainable Pasture Systems	\$99,800	Dr.Craig Sheaffer University of Minnesota
LNC98-136	Addressing Agricultural Practices and Water Quality Issues through Youth-Developed Decision Cases	\$41,498	Marla Reicks Dept of Food Science and Nutrition, University of Minnesota
LNC97-111	Farm Beginnings: An Educational Training and Support Program to Establish Young Dairy Farmers in Southeast Minnesota	\$90,000	Chuck Schwartau Goodhue County Extension
LNC97-117	A Sustainable Approach to Controlling Mite Pests of Honey Bees	\$78,750	Marla Spivak University of Minnesota
LNC96-098	People to People: Sustainable Agriculture Networking for Farmers and Rural Communities	\$97,000	DeEtta Bilek Sustainable Farming Association of Minnesota
LNC96-103	Experiential Learning Activities for an Undergraduate Minor in Sustainable Agriculture Systems	\$122,732	Dr.Craig Sheaffer University of Minnesota
LNC96-109	Packaging, Testing, and Disseminating a Set of Indicators for Ecological, Financial, and Social Monitoring on Farms	\$88,000	George Boody Land Stewardship Project
LNC95-090	Weed Control for More Sustainable Soybean Production	\$80,000	Nicholas Jordan

			Dept of Agronomy and Plant Genetics, University of Minnesota
LNC95-092	Obstacles to Market Access for Family Farm Hog Producers	\$50,180	Mark Schultz Land Stewardship Project
LNC94-075	Biological, Financial, and Social Monitoring to Develop Highly Sustainable Farming Systems	\$50,000	George Boody Land Stewardship Project
LNC94-067	Future Farmers in Sustainable Agriculture	\$20,800	Leslie Reindl Minnesota Food Association
LNC93-058	Annual Medics: New Legumes for Sustainable Farming Systems in the Midwest	\$130,000	Dr.Craig Sheaffer University of Minnesota
LNC92-045	Midwest Alternative Agriculture Education Network	\$120,000	Patrick Moore Land Stewardship Project
LNC91-034	Strip Cropping Systems to Reduce Energy Inputs and Optimize Profitability	\$53,000	Gyles Randall University of Minnesota
LNC90-011.2	The Middle Border On-Farm Research Consortium	\$113,580	Patrick Moore Land Stewardship Project
LNC90-027	Rotational Grazing Systems for Wisconsin and Minnesota Dairy Farmers – An Evaluation of Animal and Forage Performance and Whole-Farm Socio-Economic Analysis	\$118,700	Dr.Craig Sheaffer University of Minnesota
LNC89-011.1	The Middle Border On-Farm Research Consortium	\$107,697	Audrey Arner Land Stewardship Project
LNC89-020.1	Performance and Economics of a Low-Input Feeder Swine Operation	\$21,700	Carlos Pijoan College of Veterinary Medicine
LNC88-001	Integration of Conservation Tillage, Animal Manures, and Cultural Pest Control in Corn	\$98,500	David Andow University of Minnesota
LNC88-011	The Middle Border On-Farm Research and Information Network	\$75,000	Patrick Moore Land Stewardship Project
LNC88-020	Performance and Economics of a Low-Input Farrow to Feeder Swine Operation	\$42,100	Carlos Pijoan College of Veterinary Medicine

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
ENC18-164	Sustainable Farm Law 101 for Agriculture Professionals and Educators	\$74,947	Rachel Armstrong Farm Commons
ENC18-171	Blazing Trails through the Jungle of Food Regulations	\$67,086	Helene Murray MN Institute for Sus. Agric., Univ. of MN

ENC18-170	Trying Times: Tools to Understand and Alleviate Farm Stress	\$72,714	Meg Moynihan Minnesota Department of Agriculture
ENC17-158	SFA Networking for Soil Health	\$75,000	Theresa Keaveny Sustainable Farming Association of MN
ENC17-160	Training an Influential Network of Farming, Beekeeping and Extension Experts to Promote Bee Health	\$75,000	Rebecca Masterman
ENC16-151	Empowering Professionals with Sustainable Farm Law	\$70,613	Rachel Armstrong Farm Commons
ENC15-145	Soil Health and Nutrient Management Training for Immigrant and Minority Farming Communities	\$74,760	Dr. Julie Grossman University of Minnesota Anne Pfeiffer University of Minnesota
ENC15-147	Networking for Soil Health	\$75,000	Wayne Monsen Sustainable Farming Association Kent Solberg Sustainable Farming Association
ENC13-140	The Conservation Biological Control Short Course	\$71,710	Eric Mader The Xerces Society
ENC13-141	Integrating Continuous Living Cover (CLC) into Farming Systems through Professional Development	\$74,658	Richard Warner Green Lands Blue Waters
ENC12-135	Growing a Network of GAPs Educators in the Upper Midwest	\$74,385	Michele Schermann University of Minnesota Annalisa Hultberg University of Minnesota
ENC10-114	Sustainable Poultry, Pastures, Soils, and Vegetable Education in Minnesota	\$73,952	Timothy Artl University of Minnesota Extension
ENC09-110	Building Extension Capacity in the North Central Region to Address Agricultural Energy Use	\$74,919	Patrick Walsh UW-Madison Scott Sanford, Scott Sanford University of Wisconsin-Madison
ENC08-104	Building Minnesota's Farm to School Policy and Infrastructure through University of Minnesota Extension and Community Partnerships	\$75,000	Stephanie Heim University of Minnesota - Extension
ENC07-097	Sustainable Renewable Energy Training for Agriculture and Natural Resource Professionals	\$50,000	Karen Quiroz Institute for Agriculture and Trade Policy Jim Kleinschmit Institute for Agriculture and Trade Policy
ENC06-091	Organic Dairy Short Course for Ag Professionals	\$66,250	Meg Moynihan Minnesota Department of Agriculture
ENC05-086	Conservation Planning Training for Private Sector Agronomy Service and Local Conservation Agencies	\$53,562	Tim Gieseke Minnesota Project

ENC04-080	Food Alliance Workshops: Helping Extension Educators Build Community Food Systems with Certified, Sustainable Agricultural Practices	\$13,645	Jim Ennis
ENC04-083	A Tri-State Expansion: Educator Training using the Farm Beginnings Model	\$74,856	Catherine Twohig Land Stewardship Project
ENC03-073	Smarter Farmers, Smarter Lenders: Educating Toward a Sustainable Community	\$90,000	Carolyn van Schaik Land Stewardship Project
ENC02-069	Business Planning for Alternative Enterprises – Train the Trainer Program	\$62,775	Robert Craven University of Minnesota
ENC02-064	Bringing Farmland Conservation-Based Estate Planning to Agricultural Professionals	\$83,314	Julia Freedgood American Farmland Trust
ENC02-065	Elementary Organics: Multi-track Training for Minnesota's Agricultural Educators and Advisors	\$59,360	Meg Moynihan Minnesota Department of Agriculture
ENC02-068	Supporting Community with Retail and Institutional Food Service; Keeping it Safe, Legal and Local	\$42,206	Audrey Arner Land Stewardship Project
ENC01-062	Getting a handle on the barriers to financing sustainable agriculture	\$69,043	Carolyn van Schaik Land Stewardship Project
ENC99-038	"Training on Grazing and Monitoring Riparian Corridors in Minnesota and Wisconsin"	\$71,110	Carolyn van Schaik Land Stewardship Project
ENC97-019	Minnesota Sustainable Farming Association Chapter Networking	\$41,600	DeEtta Bilek Sustainable Farming Association of Minnesota
ENC96-014	Decision Cases for Sustainable Agriculture: A Video Training Project for Professional Development	\$52,380	Helene Murray MN Institute for Sus. Agric., Univ. of MN
ENC95-009	A Comprehensive Educational Program for "Training the Trainers" in Sustainable Agriculture in Minnesota, Wisconsin, and Iowa	\$108,905	Helene Murray MN Institute for Sus. Agric., Univ. of MN
ENC95-005	Life After CRP	\$30,000	Peter Buessler Minnesota Dept of Natural Resources

FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
FNC18-1144	Skalko Bee Farm	\$7,500	John Skalko Skalko's Honey Bee Farm
FNC17-1107	Building a Virtual On-Line Food Hub for Small Scale Sustainable Farms in Rural Areas	\$15,000	Prof. Jacquelyn Zita Women's Environmental Institute
FNC17-1108	Integrating Cover Crop Seeding and	\$6,650	Lee Thompson

	Strip Tillage into a One Pass System		Lane Ridge Farms Dan Coffman NA
FNC17-1099	Does Open-Pollinated Corn Have a Place on Today's Organic Farm?	\$6,008	Stanley Smith Stanley Smith
FNC17-1102	The Minnesota Hmong Agriculture Cooperative's Aggregation and Value-added Program	\$19,350	Phenhli Thao Minnesota Hmong Agriculture Cooperative
FNC16-1042	Anishinaabe Traditional Food Restoration for Local and Market Consumption	\$15,000	Winona LaDuke Winona LaDuke Heritage Farm
FNC16-1047	Subsurface Irrigation & Aerogation to Improve Productivity and Reduce Nutrient Movement	\$7,460	Russ Martie Russ Martie Farm
FNC16-1048	Assessing the Value of Hay Litter During Winter Bale Grazing	\$12,139	John Mesko Lighthouse Farm
FNC16-1063	Increasing Soil Health and Infiltration with Cover Crops	\$7,398	Vernon Uit De Flesch Uit de Flesch Farms
FNC15-1002	Intensive Rotational Grazing with Sheep on Riparian Land to Target Invasive Reed Canary Grass and Common Buckthorn	\$7,477	Nancy Lunzer Bear Street Ranch LLC
FNC15-1022	Native Youth Plant a Bee Meadow	\$7,500	Joy Persall Peta Wakan Tipi/Dream of Wild Health
FNC14-965	Developing Profitable and Sustainable Fiber Markets in Southern Minnesota	\$19,800	Jean Mueller State of Minnesota
FNC14-974	Adapting Cover Crops to Northern Climate Conventional Cropping Systems	\$22,471	Troy Salzer Carlton County Extension Abe Mach Mach Farms
FNC14-948	Management of the Spotted Wing Drosophila using High Tunnels	\$14,850	Erik Gundacker, Erik Gundacker Scenic Valley Farm
FNC14-960	Open Source Solutions for Vineyard Health Management	\$7,500	Stephen Lunak Flying L Ranch Vineyard
FNC14-964	Cover Crop Network Costshare	\$22,340	Robin Moore Land Stewardship Project Taylor Morical Morical Farms
FNC13-909	Water Capture from High Tunnel Diversion into Irrigation System using Renewable Energy	\$7,499	Cherry Flowers Page & Flowers
FNC13-914	White Earth Land Recovery Project Fish Fertilizer Project	\$7,500	Winona LaDuke White Earth Land Recovery Project

FNC13-925	Developing Commercial Elderberry Production in Minnesota	\$14,980	Christopher Patton Midwest Elderberry Cooperative
FNC12-890	Sustainable Straw Based Animal Welfare Friendly Growing Unit for Hogs	\$7,450	Paul Sobocinski
FNC12-894	Heron Lake Watershed District Cover Crop Demonstration Project	\$6,642	Jan Voit Heron Lake Watershed District
FNC12-860	Finishing Time And Weights Of Grass-Fed Beef Animals	\$19,829	Jane Jewett WillowSedge Farm
FNC12-870	Profiles of Farmers in Sustainable Agriculture	\$14,634.25	Tim King Whole Farm Cooperative
FNC12-874	Developing Soil Fertility Systems for Urban Agriculture in the Upper Midwest	\$7,239	Alexander Liebman Stone's Throw Urban Farm
FNC10-807	Bio char Kiln Fabrication and Operation	\$3,893	John Topic self
FNC10-831	Small-Scale Oilseed Processing: Evaluating Edible Camelina Oil for its Market Demand and Value-Added Opportunities	\$5,999.81	Phillip Batalden Kathleen Batalden Smith Omega Maiden Oils
FNC10-838	Control of Buckthorn with Hogs, Cutting Feed Costs with Food Waste	\$5,979.08	Nancy Lunzer Bear Street Ranch LLC
FNC10-840	Scaling Up to Meet Market Demand for Local, Organic Broccoli	\$16,932	Linda Halley Aaron Blyth Big River Farms Chris Blanchard Purple Pitchfork
FNC10-842	Big Bluestem Management Using High Density/Short Duration Grazing	\$5,907	Leslea Hodgson Root Prairie Galloways
FNC10-803	Mobile Farmers' Market	\$6,000	Diane Wilson Peta Wakan Tipi
FNC09-747	Creating a Sustainable Year-Round Greenhouse Cropping System Using Straw-bale Culture and LED Lighting	\$6,000	Karen Weiss
FNC09-749	Growing Blackberries Organically under High Tunnels for Winter Protection and Increased Production	\$5,100	Craig Gundacker Erik Gundacker, Erik Gundacker Scenic Valley Farm
FNC09-758	Comparing the pasture restoration potential and financial viability of Cornish Cross vs. Red Broilers, in combination with heritage pastured hogs, for a small pastured poultry operation in NE Minnesota	\$3,867	Cindy Hale Clover Valley Farms, LLC Jeff Hall Clover Valley Farms, LLC

FNC09-760	Examine the benefits of winter kill Sorghum-Sudan grass (Sudex) as a weed suppressing mulch in tomato production	\$3,650	Katie Cramer Cramer Organics
FNC09-762	Kenyan Women's Community Sustainable Farming (CSF) Project: Cultivation of Mwangani (Cleome gynandra)	\$17,286.50	Elizabeth Kackman Thomas Kackman
FNC09-777	How does the rotational grazing of poultry on cover crop land on a vegetable farm affect soil health and economic success?	\$6,000	Mark Boen Bluebird Gardens
FNC09-788	White Earth Goat Maanadikoshensag Project	\$18,000	Winona LaDuke White Earth Land Recovery Project
FNC08-704	City Backyard Farming	\$6,000	Xe Susane Moua
FNC08-722	Build it and they will come: Integrating beneficial beetle habitat with organic growing systems economically	\$6,000	Juan Carlos Cervantes Celestial Harvest, Inc
FNC08-723	Increasing Safety and Sustainability and Reducing the Use of Pesticides and Other Farm Chemicals Among Hmong Farmers	\$18,000	Ly Vang
FNC08-727	Indoor cultivation of mushrooms to diversify farm and test local markets	\$3,699.10	Inga Haugen
FNC08-734	The Minnesota African Women Sustainable Backyard Farming Project	\$17,981	Siona Nchotu
FNC08-740	Native Youth Teach Healthy Diets (Learning to Love Vegetables!)	\$5,952	Diane Wilson Peta Wakan Tipi
FNC07-686	Supporting the Environment and Healthy Food for Latino Markets	\$15,410	Alma Edelia Ramos Margarito Ramos
FNC07-694	Nutritional Values of Hmong Plants and Herbs	\$6,000	Mhonpaj Lee
FNC07-664	Utilizing Warm-Season Grasses in Forage Production in a Changing Climate	\$5,700	Jerry Tourtillot
FNC07-677	Winter Plant Protection On Blueberries in Northern Minnesota	\$3,996	Al Ringer
FNC06-605	Equine Forestry: Promotion of a Low-Impact Forest Harvesting Method	\$6,000	Tim Carroll Cedar River Horse Logging
FNC06-610	Lake Superior Chapter SFA Farm Beginnings Program	\$9,155	Cree Bradley Lake Superior Chapter, Sustainable Farming Assoc

			Mark Thell Lake Superior Chapter Sustainable Farming Assoc
FNC06-642	Improved Productivity in Winter Greenhouse	\$1,565	Carol Ford
FNC06-643	Impacts of Aeration Incorporation of Turkey Litter on the Yield and Quality of Alfalfa Production in Northern Minnesota	\$5,902	Jerry Tourtillott
FNC05-563	Determining the Relationship Between and Economics of Consistent Rate of Gain and Intermuscular Fat (high in CLA & Omega 3)	\$17,195	Don Struxness
FNC05-569	Dream of Wild Health Indigenous Corn Propagation Program	\$6,000	Sally Auger
FNC04-506	Designing and Validating Plant Communities/Cropping Systems for Multiple Benefits	\$13,733	Paula Westmoreland
FNC04-511	Connecting Meat Goat Producers to Existing Ethnic Consumers	\$5,000	Bob Hassett
FNC04-515	Advanced Techniques for Sustained Marketing Success of Team Farmers	\$17,146	Constance Kartens
FNC04-516	Commercial Production of Osmia Lignaria in Minnesota	\$6,000	Eric Mader
FNC04-529	Evaluation of Raspberries Grown in High Tunnels for a Northern Climate	\$6,000	Lois Hoffbauer
FNC04-539	Improved Management of Rye Cover Crops for Organic Soybean Production	\$16,150	Don DeWeerd
FNC04-498	Decorative Woody Florals Learning Circle	\$9,454	Michele Skogrand
FNC04-544	Sustainable Small Farm Promotion Using Novel Market Stand	\$3,960	Sean Albiston Blue Roof Organics
FNC04-501	How Fall Cutting Versus Fall Residue Affects Yield and Quality of Alfalfa the Next Year	\$5,600	Fred Keller
FNC04-546	Expanding Consumer Interest & Home Gardeners' Use of Heritage Tomato	\$2,181	Ardie Eckardt
FNC03-454	Adding Value to Honey Products Through the use of Melissopalynology Techniques	\$6,000	Brian Fredericksen Ames Farm
FNC03-472	Restoration of Traditional Anishinaabeg	\$6,000	Winona LaDuke

	Agricultural Practices, Utilizing the Three Sisters Gardening Method		White Earth Land Recovery Project
FNC03-478	Using a Vertical Shoot Position Trellis and Micro-Nutrients to Reduce Labor and Increase Fruit Set	\$2,502	Tim Gieseke Minnesota Project
FNC03-480	Dream of Wild Health, a Project of Peta Wakan Tipi	\$6,000	Sally Auger
FNC03-483	Developing a Saskatoon Berry Market in the Upper Midwest	\$5,310	Patricia Altrichter
FNC03-487	Yield and Feeding Value of Annual Crops Planted for Emergency Forage in Minnesota	\$5,150	David Sjostrom
FNC02-396	Testing the Use of a Modified Crop Rotation System to Control Colorado Potato Beetle	\$6,000	Janaki Fisher-Merritt
FNC02-415	Utilizing Water Conservation and Infiltration for Black Walnut Production	\$2,645	Tim Gieseke Minnesota Project
FNC02-429	Producing High Levels of CLA in Grassfed Beef in an Area with a Short Growing Season	\$17,908	Don Struxness
FNC02-434	Promoting Healthy Maple Forests	\$9,545	Bruce Savage
FNC02-438	Compost Heat for Group Nursing	\$6,000	Dennis Rabe
FNC01-377	Sustainable Straw Based Farrowing System Modified After the Swedish Model	\$4,973	Paul Sobocinski
FNC01-378	Utilizing Bats to Control Agricultural Pests	\$2,600	Joe Lancaster Wilder Forest Farm
FNC01-379	Comparison of Winter Farrowing Techniques on 4 Farms for High Value Pork Production for Niman Ranch	\$14,481	Dave Serfling
FNC01-337	Zumbro River Watershed Cover Crop Project	\$5,000	Andy Hart
FNC01-347	Four Season Production in a Northern Climate Greenhouse	\$3,896	Charles Knierim
FNC01-358	Marketing Sustainable Wood Products	\$14,850	Tom McMillin
FNC01-362	Organic Hog Production Using Several Organic Feed Rations as Compared	\$11,034	Warren Roberts

	with Conventional Hog Production		
FNC01-363	Reducing Heating Costs in Greenhouses	\$14,991	Roger Peterson
FNC00-303	Specialty Poultry and Egg Marketing to Asian Markets in Minneapolis/St. Paul Metro Area for the B/S Poultry Cooperative	\$5,000	Chong X Vang
FNC00-312	Evaluation of Christmas Tree Varieties for Northern MN	\$4,962	Jesse Hoffbauer
FNC00-324	Promoting and Distributing PastureLand Products	\$10,000	Dan French
FNC00-290	Expanding, Enhancing and Diversifying Sales with Team Farmer Marketing	\$14,850	Constance Kartens
FNC00-296	Dairy Marketing Options	\$9,900	Mike Salber
FNC00-300	Dream of Wild Health Network	\$5,000	Sally Auger
FNC00-301	Heritage Maize Project	\$14,997	Frank J Kutka
FNC99-253	Farm on Wheels, Marketing to the Consumer	\$5,000	Linda Noble
FNC99-254	South Central Minnesota Sustainable Farming Association Marketing Club	\$1,595	Nancy Aspelund
FNC99-256	Year-Round Renewably Heated and Powered Greenhouse	\$4,997	Steven Schwen
FNC99-267	Integration of Intensive Sheep Grazing with a Vineyard/Orchard Operation	\$5,000	Michael Burke
FNC99-282	Using a Confinement Building as a Deep-bedded Building Based on Hoop House Principles	\$4,700	Dwight Ault
FNC99-288	Growing Various Species of Angelica as a Forest Crop in the Midwest	\$4,971	Rose Haywood
FNC98-234	Low Environmental Impact Establishment of Hybrid Poplar Plantation	\$2,790	Michael Nohner
FNC98-208	Sustainable Hog Production in Old Farm Buildings	\$4,770	Dave Serfling

FNC98-210	Keep the Cows in the Corn, Even during the Winter Stoms	\$4,997	Don Struxness
FNC98-221	Creating and Expanding Direct Markets for Sustainable Products	\$5,000	Dennis Rabe
FNC97-177	Cattle, Grass and Streams: Can They Work Together as a Sustainable Ecosystem?	\$4,690	Ralph Lentz
FNC97-178	Native Minnesota Medicinal Production Feasibility Study	\$5,000	Renne Soberg
FNC97-182	Increased Pasture Profits through South African Dorper Sheep	\$1,790	Michael Burke
FNC97-190	Diversifying a Small Crop Farm with Hogs, Poultry, Apples and Plums	\$1,536	Nancy Aspelund
FNC97-194	Community-based Marketing with the World Wide Web	\$9,992	Lee Ann Van Der Pol
FNC97-165	Feeding the Saints	\$9,650	Tim King
FNC97-169	Development of Cultivation Equipment for Diversified Vegetable Production	\$3,194	Joe Lancaster Wilder Forest Farm
FNC96-145	Pipestone Lamb Marketing Project	\$10,000	Michael Fruechte
FNC96-147	Sheep Offal Composting Project	\$9,580	John Essame
FNC96-156	Prairie Farmers Co-op Producer-owned Livestock Processing and Marketing	\$10,000	Dennis Timmerman
FNC96-158	Hog Production in an Existing Facility Using Swedish Techniques	\$5,000	Lyle Haroldson
FNC95-098	Harvesting Wildflower Seed Crops from Marginal Land	\$1,819	Frank J Kutka
FNC95-102	Developing Weed Control Methods for Organic Raspberry Production	\$4,700	Kevin Edberg
FNC95-089	Winter Farrowing in a Low-input System	\$3,991	James Van Der Pol

FNC95-091	Living Mulches in Minnesota Wheat	\$1,373	Dave Birong
FNC94-072	Wild Flowers on Marginal Lands	\$3,775	Frank J Kutka
FNC94-078	Incorporating Rotational Grazing into Conventional Dairy Enterprise	\$4,961	Randy Meyer
FNC94-088	Multi-Phase Swedish-Style Hog Structure with Attached Pastures	\$3,095	Nolan Jungclaus
FNC93-045	Comparing Composted and Raw Manure in Crop Production	\$1,600	Rich Vander Ziel
FNC93-051	CRP Acres — Pastures or Crop Production	\$5,000	Charles Cornillie (deceased)
FNC93-053	Establishment of Warm Season Grasses and Interseeding Legumes into Cool Season Pastures	\$3,500	Ted Rolling
FNC93-033	Evaluating Productivity of Various Pasture Species by Utilizing Comsec Pasture Gauge and Bulk Density Plates	\$3,920	Dan French
FNC93-034	Hazelnut Windbreak Adds Diversity	\$4,125	Phillip Brase
FNC92-007	Weed Control and Fertility Comparisons in Solid Seeded and 30" Row Soybeans	\$4,974	David Michaelson River GLO Farms
FNC92-013	Weed Control in Sugar Beet Production Utilizing Ridge Tillage and Cover Crops	\$5,000	Alan Brutlag

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
GNC18-267	Farm to Fridge: Assessing Need and Availability of Underutilized Refrigeration in Rural Grocery Stores for Use by Fruit and Vegetable Farmers	\$12,000	Nicholas Jordan Ren Olive
GNC17-245	Identification and pyramiding of candidate genes controlling adult plant resistance in oats against crown rust disease	\$11,999	Shahryar Kianian USDA Eric Nazareno University of Minnesota
GNC17-252	Assessing agroecosystem services and end-use malting quality of winter barley in a soybean-winter barley double cropping system in the Upper Midwest	\$11,986	Dr. Kevin Smith University of Minnesota Becky Zhong
GNC17-235	Enhancing edge-of-field woodchip bioreactors to reduce nitrogen leaching using bioaugmentation and biostimulation	\$11,929	Dr. Satoshi Ishii University of Minnesota Emily Anderson University of Minnesota

GNC16-224	Agroecosystem Impact of Relay and Double Cropping winter Annual Oilseeds in Corn and Soybean	\$11,902	Donald Wyse University of Minnesota Cody Hoerning University of Minnesota
GNC16-229	Maximizing Pollinator Protection and Natural Pest Suppression in Minnesota Fruit and Vegetable Crops	\$12,000	Dr.Ian MacRae University of Minnesota, Department of Entomology Eric Middleton University of Minnesota
GNC16-232	Cover Crop Cold Tolerance for High Tunnels	\$10,875	Dr.Julie Grossman University of Minnesota Elizabeth Perkus University of Minnesota
GNC16-218	Determination of Decomposition Rates of Cover Crop Residues and Their Nutrient Release Characteristics	\$11,906	Dr.Daniel Kaiser University of Minnesota Sabrina Badger University of Minnesota, Department of Agronomy and Plant Genetics
GNC15-214	Ecologically-based Pest Management Strategies for Imported Cabbageworm in Broccoli	\$9,394	Mary Rogers University of Minnesota Aimee Talbot University of Minnesota
GNC15-215	Evaluating Sustainable Alternatives of Rootstock Selections in Grafted Tomatoes to Enhance Yield Potential in High Tunnel and Field Production	\$9,900	Dr.Emily Hoover University of Minnesota Richard Traugott UMN
GNC15-204	Identification of Native Minnesota/Midwestern U.S. Hop (<i>Humulus lupulus</i> L.) Communities as a Resource for Novel Disease Resistance Traits	\$9,808	Dr.Angela Orshinsky University of Minnesota Joshua Havill Univeristy of Minnesota
GNC15-213	Evaluating Alternative Host Plant Use of Spotted Wing Drosophila, <i>Drosophila suzukii</i>	\$10,000	Christopher Philips University of Minnesota Grace Sward University of Minnesota
GNC14-187	Improving Soil Health and Microbial Activity through Zone Tillage and Innovative Cover Cropping Strategies	\$9,995	Dr.Julie Grossman University of Minnesota Peyton Ginakes University of Minnesota
GNC13-169	Assessing Nitrogen and Carbon Pools in a Perennial Biomass Alley Cropping System in Minnesota U.S.A.	\$9,719	Dr.Craig Sheaffer University of Minnesota Joshua Gamble University of Minnesota
GNC13-170	Integrating Host-Plant Resistance and Insecticides for Sustainable Soybean Aphid Management	\$9,938	Dr.Robert Koch Department of Entomology, University of Minnesota Anthony Hanson University of Minnesota
GNC12-152	Integrating Sustainable Agriculture with K-12 Curriculum through School Garden/Orchards: a Pre-Service Teacher Training	\$9,987	Dr.Cindy Hale University of Minnesota Duluth Brian Bluhm University of Minnesota Duluth
GNC12-153	Benefits of Propolis to Honey Bee Health and Immunity	\$9,900	Marla Spivak University of Minnesota Renata Borba University of Minnesota
GNC12-159	Improving Perennial Ryegrass Seed Production in Northern Minnesota:	\$9,997	Dr.Eric Watkins University of Minnesota

	Developing Metabolomics-Assisted Selection Techniques for Crown and Stem Rust Resistant Cultivar Development		Eric Koeritz University of Minnesota
GNC12-150	Effect of Growth Meat Quality, and Profitability of Organically Raised Dairy-Beef Steers	\$9,445	Dr. Bradley Heins University of Minnesota Elizabeth Bjorklund University of Minnesota
GNC10-131	Reducing Manure and N Fertilizer Inputs in Alfalfa-Corn Rotations	\$9,919	Jeff Coulter University of Minnesota Matt Yost Utah State University
GNC10-137	Profiling Microbial Communities in Soils from Organic, Sustainable, and Conventional Cropping Systems	\$9,999	Dr. Craig Sheaffer University of Minnesota Donald Wyse University of Minnesota Adria Fernandez University of Minnesota
GNC09-102	The effects of Nosema ceranae infection on honey bee health and Colony Collapse Disorder	\$10,000	Marla Spivak University of Minnesota Michael Goblirsch University of Minnesota - Department of Entomology
GNC09-104	Reducing Pre-weaning Mortality in Loose-Housed Farrowing Systems	\$9,980	Dr. Yuzhi Li University of Minnesota Christina Phillips University of Minnesota
GNC07-075	Evaluating Rye Germplasm for Use as a Cover Crop in the Upper Midwest	\$9,898	Paul Porter University of Minnesota Michael Kantar University of Minnesota
GNC07-083	Determination of volatile compounds that elicit removal of diseased brood by hygienic honey bees.	\$10,000	Marla Spivak University of Minnesota Jodi Swanson University of Minnesota
GNC06-072	Comparison of Use and Chemical Composition of Propolis Collected by U.S. Honey Bees	\$10,000	Marla Spivak University of Minnesota Michael Simone University of Minnesota, Dept Ecol., Evol. & Behav
GNC06-059	Analysis of Travel Patterns of Bison and Cattle on Native Nebraska Sandhills Rangeland	\$9,807	Charles Butterfield Chadron State College Andrew Cassidy Chadron State College
GNC06-071	Breeding and Development of Perennial Sunflower and Perennial Flax Varieties for Low-Input Agriculture	\$9,700	Donald Wyse University of Minnesota Brent Hulke University of Minnesota
GNC05-042	Nitrogen Fertilization for Hybrid Hazelnuts in the Upper Midwest	\$9,589	Jeffrey Gillman University of Minnesota Dr. Lois Braun Research Associate
GNC05-054	Use of green manures to reduce inoculum production of Fusarium graminearum on wheat residues	\$10,000	Dr. Ruth Dill-Macky University of Minnesota Dr. Linda Kinkel University of Minnesota Carlos Perez University of Minnesota

GNC04-034	The title of the project: From Beneficial Insect to Economic Pest: a Sustainable Management to the Asian Lady Beetle in Midwestern Grapes	\$9,633	William Hutchison Univeristy of Minnesota Tederson Galvan University of Minnesota
GNC03-023	Comparing Vesicular-Arbuscular Mycorrhizal Colonization in Conventional versus Organic Strawberry Production Systems	\$10,000	Dr.Emily Hoover University of Minnesota Marjorie Ross University of Minnesota
GNC03-024	Systems Evaluation of the Components of Reduced Input Dairy Farms	\$9,620	Dennis Johnson
GNC02-005	The Effect of Crop-Weed Gene Flow on the Competitive Ability of Weedy Sunflower	\$10,000	Donald Wyse University of Minnesota Ruth Shaw University of Minnesota Kristin L Mercer University of Minnesota
GNC02-004	Reproductive Success and Survival of Grassland Passerines in an Agriculture Landscape: the Contribution of Alternate Grazing Systems to Bird Population Viability	\$10,000	Vernon Cardwell Melissa Driscoll University of Minnesota

ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE support	Project Leaders
ONC18-043	Increasing value-added opportunities through on-farm food service: Research, resources & field days	\$29,992	Brett Olson
ONC17-029	High Tunnel Immigrant Farmer Training and Demonstration Plot	\$30,000	Nick Mabe The Good Acre
ONC16-015	On Farm Research to Quantify the Value of Cover Crops for Nutrient Crediting	\$30,000	Spencer Herbert Minnesota Department of Agriculture
ONC16-016	Building Capacity via Peer-to-Peer Food Safety Education with Hmong-American Fruit and Vegetable Farmers	\$29,897	Annalisa Hultberg University of Minnesota
ONC16-019	Causes of Honey Bee Queen Failure in Commercial Beekeeping Operations	\$30,000	Marla Spivak University of Minnesota
ONC15-003	Maximizing Pollinator Services from Native Bees	\$29,964	Dr.Karl Foord University of Minnesota
ONC15-009	Shifting Local Trends with Cover Crops and Short Season Corn	\$29,870	Robin Moore Land Stewardship Project

YOUTH EDUCATOR GRANTS

Project #	Project Title	SARE support	Project Leaders
YENC18-123	Expanding Career Success and Environmental Stewardship Through Beekeeping Education	\$2,000	James Hansen Lyle Public School
YENC18-129	Sustainable Agriculture Internship	\$2,000	Carley Rice

	Including Study of Compost Nutrient Cycling in Urban Agriculture		Spark-Y
YENC18-131	Arts US Young Growers!	\$1,999	Roi Ward
YENC15-085	Big River Farms Youth & Family Engagement Program – a Project of the Minnesota Food Association	\$2,000	Laura Hedeem Minnesota Food Association
YENC12-055	Community Youth Education Program through Stone's Throw Urban Farm	\$1,986.74	Anna French
YENC09-021	Intergenerational Farm Experience	\$1,972	Chianeng Thao Association for the Advancement of Hmong Women in Minnesota Ly Vang Association for the Advancement of Hmong Women in Mnesota
YENC08-001	Seed to Seed: Riverway Learning Community Gardening Project	\$2,000	Jacqueline K M Paulsen Riverway Learning Community

YOUTH GRANTS

Project #	Project Title	SARE support	Project Leaders
YNC10-062	Learning to Spin: Turning Wool into Yarn	\$393.90	Nelson Morlock
YNC09-039	Beneficial Bees from a Teenager's Perspective	\$393.74	Amanda King
YNC09-045	Moving Midget White Turkeys off the Critical List	\$400	Joshua King
YNC09-035	RecROOTing Seniors to Sprout	\$397.75	Sarah Anderson
YNC08-002	Utilizing A Barrel of Space	\$400	Dillon Boen Bluebird Gardens
YNC08-014	Maple Syrup Making	\$221.79	Michaela Handke
YNC08-016	Eat Healthy, Garden to Eat – Eat to Live	\$400	Annemarie Esther Keller
YNC08-022	Goat Birthing Process and Meat Goat Grooming Videos	\$400	Tia Muller

PDP STATE PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
NCMN17-	Minnesota Annual State Report	\$110,000	Kate Seager

**Total funding from the USDA SARE program to
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\$11,299,137**



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

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