



AGRICULTURE PROJECTS FUNDED IN MICHIGAN

by USDA's
Sustainable Agriculture Research and Education (SARE) Program
1988-2016

Michigan has been awarded \$5,737,843 to support 226 projects, including but not limited to, 34 research and/or education projects, 18 professional development projects and 114 producer-led projects. Michigan has also received additional SARE support through multi-state projects.

State Sustainable Agriculture Coordinator(s):

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RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
LNC14-361	Insectary Plants to Enhance Beneficial Insects: Expanding the Palette to Increase Options for Sustainable Crop Production in the NC Region	\$199,887	Dr. Douglas Landis Michigan State University
LNC12-345	A Local Pasture-Based Beef Production System for Northwest Michigan	\$181,342	Dr. Jason Rowntree Michigan State University
LNC12-343	Non-Antibiotic Alternatives for Bovine Mastitis Therapy	\$199,912	Dr. Bo Norby Michigan State University
LNC12-344	On-farm Organic Soybean Variety Trials	\$199,153	Robert Battel MSU Extension Daniel Rossman Michigan State University Extension
LNC11-330	Combining Strip-Tillage and Cover Crops for Resource Conservation and Profit in North Central Vegetable Cropping Systems	\$169,853	Daniel Brainard Michigan State University
LNC08-302	Connecting Landowners, Growers and Markets Using Purchase of Development Rights (PDR)	\$20,900	Barry Lonik Ann Arbor Township
LNC08-307	Diversity - The Continuing Face of Sustainable Agriculture	\$100,000	Barbara Norman Michigan Food and Farming Systems
LNC08-297	Native Plant Conservation Strips for Sustainable Pollination and Pest Control in Fruit Crops	\$148,837	Dr. Rufus Isaacs Michigan State University Brett Blaauw Michigan State University
LNC07-281	Developing pest management guidelines for organic production of highbush blueberries in the North Central Region	\$149,991	Dr. Annemiek Schilder Michigan State University

LNC07-276	No-till pumpkins using cover crops	\$131,420	Dr.Dale Mutch Michigan State University Extension
LNC06-268	Examining the Sustainability of Copper Use for Disease Management and Horticultural Benefit in Tart Cherry Systems	\$145,500	George Sundin Michigan State University
LNC06-267	Farmers' Markets: A Real Opportunity for Michigan Fruit and Vegetable Growers	\$76,600	Dr.Jim Bingen Michigan State University
LNC04-244	Integrating Cropping and Nutrient Management Systems on Grass-Based Dairies with Manure Slurry Enriched Micro-Site Seeding	\$137,849	Timothy Harrigan Biosystems and Agricultural Engineering
LNC04-251	One year's seeding: a seedbank approach to sustainable weed management	\$149,903	Karen Renner Michigan State University
LNC04-249	Utilizing Native Plants to Enhance Insect and Weed Biological Control	\$150,000	Dr.Douglas Landis Michigan State University
LNC03-234	Calcium Inputs for Soil Quality Improvement	\$102,771	Bernard Knezek Michigan State University
LNC02-203	Determining Adaptation of Mono- and Binary Mixtures of Improved Red and Ladino Clovers and Perennial Grasses, Including Perennial Ryegrasses, in the Great Lakes Region	\$94,344	Richard Leep Michigan State University
LNC02-215	Multi-Cultural Farmer Mentors	\$99,880	Thomas Guthrie, Jr Michigan Integrated Food and Farming Systems
LNC02-217	User/Grower Educational Materials and Training for Polyethylene Film High Tunnel Winter Production and Harvesting of Organic Salad Greens and Vegetables	\$43,274	John Biernbaum Michigan State University
LNC01-187	Earthworks Garden and Poultry Urban CSA	\$99,706	Ashley Atkinson Hunger Action Coalition
LNC01-186	Educational Materials and Training that Foster Implementation of Ecologically Based Pest Management Decision-Making in Great Lakes Apple Production	\$63,117	David Epstein Michigan State University
LNC01-195.1	Innovative Tart Cherry Orchard Systems: Design, Evaluation, and Demonstration	\$90,742	David Epstein Michigan State University
LNC99-159	Financial Indicators of Sustainability on Michigan Farms	\$27,900	John Durling Michigan Agricultural Stewardship Assn, Crop Soil Sciences Dept
LNC98-139	Innovative Tart Cherry Orchard Systems: Design, Evaluation, and Demonstration	\$75,000	Charles Edson IPM Program, Center for Integrated Plant Systems, Michigan State University
LNC97-112	Enhancing Adoption of Sustainable	\$100,405	Dr.Dale Mutch

	Agriculture Practices via Farmer-Driven Research		Michigan State University Extension
LNC95-082	Domestic Birds as Weed and Insect Pest Biocontrol Agents: Field Experimentation and On-Farm Evaluation	\$25,200	Laura DeLind
LNC95-085	Ecological Principles of Habitat Management for Weed and Insect Biological Control	\$94,923	Dr.Douglas Landis Michigan State University
LNC94-064	Integrated System for Sustainability of High Value Field Crops	\$73,000	James LeCureux Michigan State University Extension
LNC93-057	Improving Nitrogen Utilization with Rotation and Cover Crops	\$93,799	Richard Harwood Michigan State University
LNC92-052	The Adoption of LISA Techniques of Pest Management by North Central Fruit Growers	\$42,410	Craig Harris Michigan State University
LNC91-039	A Landscape Ecological Perspective in Insect and Weed Population Regulation in Low-Input and Conventional Systems	\$75,000	Dr.Douglas Landis Michigan State University
LNC91-022.1	Development and Demonstration of Methods toward Sustainable Apple Production: Continuation of Systems Integration	\$18,000	Stuart Gage Michigan State University
LNC91-041	Legume Management Research for VA Mycorrhizal Enhancement in Potato Production	\$96,000	Gene Safir Michigan State University
LNC89-022	Development and Demonstration of Methods toward Sustainable Apple Production	\$24,500	Stuart Gage Michigan State University

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
ENC12-130	Enhancing the Integrated Pest Management Academy to Provide Professional Development Opportunities for Agricultural Educators that Increase Economically and Environmentally Sustainable Agriculture in Michigan	\$72,484	Erin Lizotte MSU Extension, Suite 400
ENC11-127	Ensuring Sustainable Agriculture in the Face of a Changing Climate	\$74,286	Dr.Tapan Pathak University of Nebraska Julie Doll Michigan State University
ENC09-112	Hoophouse and Organic Farming for Ag Lenders	\$25,329	Vicki Morrone Michigan State University Dr.Susan Smalley Michigan State University
ENC06-090	Enhancing the Capacity of Educators and Farm Leaders to work with Socially Disadvantaged Latino Farmers	\$33,750	Juan Marinez Michigan State University
ENC06-088	The New Agriculture Network: an organic farming forum for education and research	\$75,000	Dr.Dale Mutch Michigan State University Extension

ENC04-081	Community Food Issues: Sustainable Agricultural in Community Development	\$75,000	Mike Hamm Community, Agriculture, Recreation & Resource Stud
ENC02-063	Professional Development - Holistic Management Training	\$146,300	Benjamin Bartlett Michigan State University
ENC01-061	Crop Ecology Education	\$58,480	George Bird Michigan State University
ENC01-060	Manure Nutrient Recycling and Environmental Assurance	\$75,075	Natalie Rector MSU Extension
ENC99-044	Building Human Capital for Value Added Marketing	\$55,180	Natalie Rector MSU Extension
ENC98-029	Michigan Field Crop Ecology: Training and Field Demonstrations	\$47,677	Natalie Rector MSU Extension
ENC97-024	Improving the Environment for Community Supported Agriculture in Michigan, Ohio, and Indiana	\$23,966	Laura DeLind
ENC97-012.1	Self-Directed Participatory Agent Learning	\$53,700	Natalie Rector MSU Extension
ENC96-011	Accessing Community-Based Information Sources for Improving Surface Water Quality	\$14,300	Rich Bowman Grand Valley State University
ENC96-017	In-Service Training in Sustainable Agriculture and Agricultural Ecology for NRCS Personnel and Partners	\$30,000	Lawrence Dyer Kellogg Biological Station / Extension
ENC96-012	Participatory Learning Between Farms and Field Crop Area of Expertise Team Members	\$48,200	Natalie Rector MSU Extension
ENC95-003C	Developing Educational Materials and Schools for Sustainable and Profitable Grazing Systems	\$31,500	Richard Leep Michigan State University
ENC95-004	Local Sustainable Agriculture Team Building: A Sustainable Agriculture Training Model	\$30,000	Russ LaRowe Michigan Agricultural Stewardship Association

FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
FNC16-1057	Developing a System of Tissue Culture and Hydroponic Growing Medium for Hop Plant Production	\$22,500	Tim Small Great Lakes Hydrogrow Llc.
FNC16-1041	Evaluating On Farm Value Added Production in Utilizing Unmarketable Produce to Reduce Waste While Helping Small Farms Engage in Agritourism and Become More Profitable	\$7,379	Lance Kraai New City Neighbors

FNC16-1033	Open Source Automated Irrigation System for Small Farms, Urban Farms or Specialty Crops	\$7,442	Christian Flickinger Renegade Acres
FNC16-1028	Optimal Flock Size for Pasture Raised Layers	\$7,394	Aaron Brower Bluestem Farm
FNC16-1060	Optimizing a Short Trellis System for Growing Cascade Hops in Michigan	\$7,500	John Spieth Honeybee Farm
FNC16-1050	Using Small Ruminants to Improve Forage Availability in Michigan Equine Pastures	\$6,543	Bess Ohlgren-Miller Arbor Meadow
FNC15-983	Exploring Shelter-Based Options for Over-wintering Honeybee Colonies in Northern Climates to Reduce Winter Loss	\$10,752	Brian Bates Bear Creek Organics LLC
FNC15-988	Farm-Generated Fertility: Vermicomposting Horse Manure and Vegetable Wastes	\$7,301	Rachel Cross Spirit of Walloon
FNC15-1005	Improving apiary sustainability by using an overwintered nuc system for colony replacement and expansion instead of purchased package bees	\$7,492	Meghan Milbrath Bending Sickle Community Farm
FNC14-980	An Integrated Organic Hops/Cover Crop/Pastured Sheep Production System To Address Agroecological Challenges And Diversify Farming Operations	\$22,288	Amy Tennis New Mission Organics LLC
FNC14-951	Building Capacity through Collaboration and Eliminating Urban Food Deserts	\$22,500	Shakara Tyler MSU Center for Regional Food Systems Cary Junior SEMPA
FNC14-946	Chestnut Harvest Burr Management	\$7,390	Carl DeKleine DeKleine Orchards, LLC
FNC14-943	Comparing Measurable Indicators of Soil Health under Two Different Forage Harvesting Methods Four times During the Growing Season	\$6,462	Benjamin Bartlett Log Cabin Livestock
FNC14-945	Demonstrating a Quick-Start Process to Help Small Blueberry Farmers Begin Transition To Organic Practices	\$22,439	Frank Corrado Moss Funnel Farms
FNC14-976	Developing a Strategy For Utilizing Yard Waste Compost In A Corn And Soybean Rotation To Increase Soil Quality	\$15,736	Ryan Schwehofer Schwehofer Farms
FNC14-969	Using Wildflower Strips to Enhance Native Pollinators and Other Beneficial Insects that are at Risk due to Increased Chemical Interventions Designed to Control Spotted Wing Drosophila, Drosophila Suzukii	\$7,460	Judy Rant Double R Blueberry Farm
FNC13-921	A growth and feed comparison study with a focus on organically grown high methionine grains for broiler chickens	\$7,360	travis meier travis meier

FNC13-933	Food Drying and Preservation in a Greenhouse Solar Dehydrator	\$7,476.29	Patrick Scharinger Pond Hill Farm Kelly Doyle Pond Hill Farm
FNC13-941	Organic Potato Variety Trial in Michigan's Upper Peninsula	\$2,245.77	Michael Wixtrom Wixtrom Natural Farms
FNC13-923	Renovation and Ecological Management of Neglected Apple Orchards in Southeast Michigan	\$7,465.62	Trevor Newman Roots to Fruits
FNC12-853	Exploring the Potential for Fava Beans (<i>Vicia faba</i>) as a Spring and Fall Cover Crop in Upper Midwest	\$7,461	David Coveyou Coveyou Farms LLC
FNC12-849	Testing Combined Multiple Sustainable Production Methods in Asparagus for Symbiosis between Irrigation, Biofumigation, Advanced Cultivars, and Soil Amendments	\$7,500	Benjamin Byl Farmer
FNC10-809	Growing, Processing, and Selling Omega-9 Canola Oil	\$5,969	Dan Blackledge B & B Farms
FNC10-826	Meeting the Growing Demand for Organic Hops: Low-Trellis Organic Hop Production in the Great Lakes Region	\$17,719.75	Brian Tennis New Mission Organics Dr. Rob Sitrine
FNC10-804	Michigan Organic Hops Production: utilizing current IPM models to investigate biocontrol effectiveness on hops pests and diseases in an organic production system	\$5,993.90	Bonnie Steinman Jeffrey Steinman Hop Head Farms LLC
FNC09-778	Cow Taxi Project	\$5,815.20	Jeff Lubbers Lubbers Family Farm Karen Lubbers Lubbers Family Farm
FNC09-757	Exploring sustainable options for conservation of small woodland parcels through wild-crafting crops	\$3,583.98	Merrill Clark Lisa Jackson Growing Obsessions Nursery Lisa Lovell
FNC09-755	Integrating Bats into Organic Pest Management	\$16,323	Bill Erwin Erwin Orchards Steve Tennes The Country Mill Jane Bush Apple Schram Orchard
FNC09-787	Kitchen Gardening for Life	\$6,000	Les Roggenbuck East River Organic Farm
FNC08-720	Economics of Growing Beer Hops in Southwest Michigan	\$5,995	Ed Dohm
FNC08-713	Greenhouse and Raised Bed Crop Production with Organic Farm Practices with Fruit and Vegetable Production	\$6,000	David Beck
FNC08-719	Novel Vacuum Fruit Harvester	\$18,000	Michael Rasch

Westridge Orchards

FNC08-735	Utilizing Waste Cardboard for Livestock Bedding on Small Farms	\$2,299.95	Doreen Passuello
FNC07-654	Establishing a Regional Community Food Project in Rural Northeast Michigan	\$18,000	Brian Botkin
FNC07-662	Evaluating Modified Relay Intercropping (MRI) in Ingham County, Michigan	\$17,925	Tony Ig
FNC07-658	Ranging Poultry on Temporary Pasture - An Integrated Poultry and Vegetable System	\$3,720	Chris Bardenhagen
FNC07-661	Winter Canola as a Cover Crop and Renewable Energy Source	\$11,898	Steve Tennes The Country Mill
FNC06-639	Evaluating Corn, Soybean and Wheat Varieties in Organic Farm Systems in Michigan	\$17,608	Ivan Morley
FNC06-618	Growing Community Supported Agriculture with Day-Long Mini Schools	\$4,200	Jim Sluyter
FNC06-603	Identifying a Market for Woody Florals, and Other Specialty Cut Flowers in Michigan	\$1,598.84	Dixie Sandborn
FNC05-548	Continuous Fiber Felting Machine	\$6,000	Suzanne Pufpaff Pufpaffs Fiber Processing, LLC
FNC05-579	Developing a Community Sponsored Vegetable Operation in Rural Northeast Michigan	\$6,000	Brian Botkin
FNC05-580	Encouraging Managed Grazing in Michigan	\$9,245	Howard Straub
FNC05-556	George Washington Carver's Garden: Farm Model and Mentoring Program for Seniors and Youth	\$18,000	Robert Crowder
FNC05-589	Growing New CSA Farmers: Conference and Mini-School for Community Supported Agriculture	\$14,000	Jim Sluyter
FNC05-550	Winter Hardiness Trials of New Garden Chrysanthemum Varieties and Farm Research on Effectiveness of Winter Mulching Techniques	\$6,000	David Coveyou Coveyou Farms LLC
FNC04-530	A Comparison of the Profitability of Subsoil Heated and Unheated Hoophouse vs. Field Production of Cool-Climate Salad Crops in Central Lower Michigan	\$3,033	Philip Throop

FNC04-505	Comparing Alfalfa and Red Clover as Economical Dairy Cow Forage	\$2,197	Mike Iho
FNC04-526	Free Range Egg Cooperative	\$12,475	Sam Catey
FNC04-509	Garber's Summer Farm Day Camp	\$4,166	Cindy Garber
FNC03-440	Designing My Path into Sustainable Organic Farming	\$5,448	Roy Monzo
FNC03-462	Establishing Successful Organic Orchards	\$6,000	Peter Ways
FNC03-439	Pasture Improvement Trial: Enhancing Results By Analyzing Samples and Observing Cattle Grazing Preferences	\$6,000	Mike Iho
FNC03-470	Sweeping the Orchard Floor as a Housekeeping Practice to Effectively Control the Plum Curculio Insect in Organic Orchards	\$6,000	James Koan
FNC03-481	The Value of Mint: Preserving Historical Mint Fields with Windbreaks	\$3,870	James Crosby Crosby Mint Farm
FNC02-390	Encouraging More Bio-Diversity on My Farm By Providing A Safe Harbor for Nature's Best Mouse Trap: The Endangered Barn Owl	\$1,822	James Koan
FNC02-418	Meeting the Needs of the Michigan Craft Brewing Industry: The Potential of Barley and Hops As Alternative Crops	\$9,357	Wendell Banks
FNC02-391	Mill Race Center Farmers Market Community Supported Agriculture Outreach Program	\$12,800	Beth Neff
FNC02-401	Pasture Improvement Trial	\$1,197	Mike Iho
FNC02-432	Small Scale/Youth Organic Gardening Project Continuation	\$18,000	Leroy Ray, Jr. The Farm School Cooperative
FNC01-340	Bats as Part of a Sustainable Pest Management Approach to Controlling Moth Pests in Commercial Apple Production	\$4,799	James Koan
FNC01-384	CSA Dairy	\$5,000	Gene Allen
FNC01-369	Determination of Market and Profit Feasibility for an Organic Specialty Cut	\$5,000	Kim Smith-Potts

	Flower Business in a Rural Northern Michigan Community		
FNC01-344	Incorporating Minority Farmers in the Sustainable Agricultural Movement	\$5,000	Roger Outlaw
FNC01-356	Organic Dairy	\$11,700	Chuck Oliver Oliver Farm
FNC00-306	A Youth-operated Certified Compost Production and Distribution Scheme	\$15,000	Leroy Ray, Jr. The Farm School Cooperative
FNC00-325	Building a Thermal-Blast Peeler to Prepare Chestnut for On-Farm, Value-Added Processing	\$5,082	Corey Allen
FNC00-322	Cutting the Red Tape: Processing Pastured Poultry to Meet Market Demands	\$5,125	Kay Jones
FNC00-292	Multi-farm CSA: A Group Marketing Initiative for Rural Northern Michigan	\$14,890	Rick Meisterheim
FNC00-307	Pathogen Reduction in Apple Cider Production	\$4,450	Michael Beck Cider Production Manager
FNC99-251	Creating a Farmer-youth Sustainable Production and Marketing Cooperative for a Group of Black Farmers in Van Buren County, Michigan	\$15,000	LeRoi Ray Farm School Cooperative
FNC99-268	Flexible Low-cost Poultry Processing	\$4,180	Jack Knorek Oak Moon Farm
FNC99-260	Heirloom Apples	\$5,000	Pepper Bromelmeier
FNC99-264	Organic Marketing Cooperative	\$9,254	Thomas Judge
FNC99-250	Researching the Cost-effectiveness of Building a State-licensed, Mobile Poultry Processing Facility as a Regional Farmers' Group	\$14,967	Rick Meisterheim
FNC99-277	Utilizing Breeding Ewes' Grazing Abilities for Pasture and Crop Residue to Lengthen the Grazing Season	\$4,325	Tamra Ashley
FNC98-236	Cover Crops' Influence on Soil Quality in No-Till Corn/Soybean Rotations	\$5,000	Gary Manley
FNC98-202	Expanding Partnerships between Southern Michigan Cash Crop Farmers and Northern Michigan Livestock Farmers	\$5,000	Henry Miller
FNC98-204		\$4,490	Pamela Bosserd

FNC98-203	On-Farm Market for High Quality, Locally Grown Products and an Experience for School Children Southwestern Michigan Marketing Plan for Locally-Grown Produce	\$10,000	Phillip Prillwitz
FNC98-240	Utilizing Alternative Methods for Silage Harvest and Storage	\$5,000	David McCartney
FNC98-213	You-Pick for the Handicapped	\$5,000	Thomas Robinson S&S Farm Market and Greenhouse
FNC97-168	Developing Partnerships between Southern Michigan Cash Crop Farmers and Northern Michigan Livestock Producers	\$5,000	Henry Miller
FNC97-186	Farmer Networking to Direct Precision Ag Technologies Toward Sustainability	\$4,950	Tom Waller
FNC97-166	Innovative Farmers Seeking Lowest Nitrogen Rates for Corn on Sandy Soils to Protect Ground Water	\$4,021	Eric Hiscock
FNC97-167	Innovative Farmers Seeking Sustainable Solutions through On-farm Demonstrations	\$4,750	Kevin Vandy-Bogurt
FNC97-170	Integrated Row Tillage Project	\$3,523	Todd Williams
FNC97-187	Marketing On-farm Composted Manure	\$9,700	Joe Slater
FNC97-199	Processing and Marketing Milk Produced on our Small Dairy Farm	\$5,000	George Shetler
FNC97-172	Swine Finishing in a Hoop Structure with Deep Bedding	\$5,000	Gary Blonde
FNC97-179	The Custom Grazing of Replacement Dairy Heifers on Fuego Fescue and Barenburg Ryegrass under a Management-intensive Grazing System	\$3,518	Helene Paulik
FNC97-189	The Economics of Seed Saving on Three Biological Farms in Western Michigan	\$4,676	Paul Keiser
FNC97-183	Transition from Traditional Grain or Livestock Agriculture to On-farm Roadside Marketing of Produce	\$5,000	Pamela Bosserd
FNC96-152	Extending the Vegetable Growing Season in Northern Michigan with Polyhouses	\$2,696	James Chadwick
FNC96-139	Permaculture Greenhouse System:	\$5,000	Rick Meisterheim

	Integrating Greenhouse and Poultry Production		
FNC96-155	Using Forage and Grazing Systems as an Alternative to Row Crops on Michigan Muck Soils	\$5,000	John Oswalt
FNC95-125	Improving Ground and Surface Water Quality by Reducing Commercial Fertilizer Applications to Land Receiving Livestock Manures	\$4,644	Calvin Dyke
FNC95-113	Nitrogen Management on Sandy Soils for Environmentally and Economically Sustainable Corn Production	\$5,000	Ed Groholski
FNC95-122	Stockpiling Pasture by Interseeding Annual Rye into Existing Pastures	\$640	Chuck Conillie
FNC95-109	The Development of an On-farm Learning Center	\$5,000	Bob and JoAnn Fogg
FNC94-077	Composting Swine Carcasses	\$2,900	Ed Fisher
FNC94-086	Developing a Stewardship Plan for Water Quality	\$4,538	Tom Guthrie
FNC94-065	Implementing Sustainable Agricultural Practices to Attain Organic Certification	\$5,000	Bob Carriveau
FNC94-061	Livestock Watering Systems	\$3,604	Joe Golimbieski
FNC94-083A	On-Farm Composting of Livestock Manure	\$2,500	Joe Slater
FNC94-083B	On-Farm Composting of Livestock Manure	\$2,500	Bob Wackernagel
FNC94-066	Pasture Renovation and Reseeding	\$3,325	John Milbocker
FNC93-056	Bio-Control of Colorado Potato Beetle Utilizing Poultry	\$2,044	Quinn Cumberworth
FNC93-050	Composting Rural and Urban Waste	\$4,950	Marlin Goebel
FNC93-043	Evaluating Forages in Rotational Grazing System for Dairy	\$4,688	Dale Kellenberger
FNC93-049	Evaluating Liquid Manure as Nutrient	\$4,551	John Muma

Source in a Commercial Orchard

[FNC93-035](#) Intensive Rotational Grazing for Sheep \$1,868 John Oswalt

[FNC93-037](#) Manure Composting in Dairy Operations \$2,600 George Shetler

[FNC92-024](#) Production and Marketing of Organic Beef \$2,020 Kathy Theil

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
GNC16-223	Green Tools: Improving Sustainability by Integrating New In-Row Cultivation Equipment and Competitive Cultivars	\$11,994	Sam Hitchcock Tilton Department of Horticulture, Michigan State University
GNC16-225	Luring Generalist Predators from Field Borders to Control Crop Pests	\$11,728	Adam Ingrao Michigan State University
GNC15-211	Evaluating Agricultural Applications of Orchard Nest Boxes and Perches for a Declining Raptor Species: Quantifying Impacts on Pest Rodents and Birds	\$9,959	Megan Shave Michigan State University
GNC15-205	Sustainable Pest Management Approaches for Raspberry Growers	\$9,979	Heather Leach Michigan State University
GNC14-196	Biodiversity Effects on Soil carbon Gain in Annual and Perennial Cropping Systems	\$6,382	Christine Sprunger Michigan State University/ Kellogg Biological Station
GNC14-194	Integrating Flowering Windbreaks for Insect Management in Cucumbers	\$9,989	Nicole Quinn Michigan State University
GNC14-192	Linking Soil Testing with Farmer Decision Making - An Interdisciplinary Approach	\$6,853	Brendan O'Neill Michigan State University
GNC13-173	Development of an Integrative Two-tiered Systemic Approach to Manage Bacterial Canker of Sweet Cherry by Targeting Critical Environmental Infectious Periods	\$9,983	Tiffany Lillrose Michigan State University
GNC13-177	Effects of Pest Management and Conservation Plantings of Bee Communities in Highbush Blueberry	\$9,962	Emily May Michigan State University
GNC13-164	Quantification of Nitrogen Lost to Greenhouse Gas Emissions in Cover Crop Systems	\$9,924	Victoria Ackroyd Michigan State University
GNC13-171	Understanding the Economics of Hoophouse Crops in Northern Climates	\$9,999	Laura Haselhuhn Michigan State University
GNC13-181	Use of Water Mist to Protect Tree Fruit from Spring Frost Damage	\$9,865	Ishara Rijal Michigan State University

GNC12-158	Improving Resource Use Efficiency Through Strip Tillage, Cover Cropping, and Deep Fertilizer Placement	\$9,915	Erin Haramoto University of Kentucky
GNC10-134	Artisanal Agrifood Processing and Food Safety Regulation: Responding to the Concerns of Small Processors and Regulators in Michigan	\$9,903.30	Jenifer Buckley Michigan State University
GNC10-141	Combining Alternative Cover Crop Strips, Living Mulches and Strip Tillage for Effective Weed and Nutrient Management in Organic Sweet Corn Production	\$9,960	Carolyn Lowry Michigan State University
GNC10-146	Low Tunnel Strategies for Microclimate Modification and Early Vegetable Production	\$9,591	Rebekah Struck Favior Michigan State Univ
GNC10-117	Nitrogen Mineralization from Weed Residues	\$9,543.50	Laura Bast Michigan State University
GNC09-108	A novel approach for optimizing the benefits of cereal-legume cover crop mixtures in vegetable cropping systems	\$9,983	Zachary Hayden Horticulture, Michigan State University
GNC09-116	Evaluation of Plant Composition and Strip Size on the Effectiveness of Native Plant Conservation Strips for Sustainable Enhancement of Beneficial Insect Communities	\$9,910	Brett Blaauw Michigan State University
GNC08-096	Best Hispanic Farmer's Management and Marketing Strategies in Michigan	\$9,950	Lourdes Martinez Michigan State University
GNC08-099	Determination of the relationship between soil nutrients, mycorrhizae, and plant health in organic blueberry production	\$9,900	Jesse Sadowsky Michigan State University
GNC08-097	Sustaining Farmers Markets that Serve Low-Income Consumers	\$9,995	Dru Montri Michigan State University
GNC08-095	Treatment of Agricultural Runoff Using Filter Strip	\$10,000	Dr.Rebecca Larson Univesrity of Wisconsin-Madison
GNC07-080	Advanced cropping system for sustainable production of Fraser fir (Abies Fraseri) in Christmas tree productions	\$10,000	Dr.Paligwende Nikiema Michigan State University
GNC07-082	Demonstration of a sustainable method of Beauveria bassiana delivery for use against plum curculio	\$9,822	Renee Pereault Michigan State University
GNC07-086	Evaluation of supplemental flowering plant strips for sustainable enhancement of beneficial insects	\$9,797	Nathaniel Walton Michigan State University
GNC06-063	Development of winter cover crop varieties and complementary mixtures for North Central Region grain systems	\$9,882	Brook Wilke Michigan State University Dr.Sieglinde Snapp

		Michigan State University	
GNC06-069	Distribution Strategies for Developing Farm-to-School Connections	\$9,784	Betty Izumi Michigan State University
GNC06-064	Improved management of striped cucumber beetle , <i>Acalymma vittatum</i> (F.) (Coleoptera: Chrysomelidae) by using a squash trap crop and a polyculture of cucumber and tomato.	\$10,000	Matthew Kaiser Michigan State University
GNC06-065	Integrating and Evaluating Livestock Guarding Dogs for Reducing Wolf-Human Conflict on Michigan Farms	\$7,504	Anna Cellar Central Michigan University
GNC05-056	An Interdisciplinary Framework for Sustainable Tart Cherry (<i>Prunus cerasus</i> L.) Production	\$10,000	J Robert Sirmine Department of Environmental Studies
GNC05-050	Managing Crop Residues: Balancing Soil Quality and Farm Profitability	\$9,970	Terrance Loecke Michigan State University
GNC05-044	Processes Involved in the Weed Suppressiveness of Hairy Vetch and Implications for Weed Management in Vegetable Production	\$10,000	Mathieu Ngouajio Erin Hill
GNC04-037	Community Farmers: The Pathways and Opportunities to Success for New, Innovative Farmers in Michigan	\$9,720	Taylor Reid Michigan State University
GNC04-036	Cropping System to Improve Vegetable Production Under Short Crop Rotation	\$10,000	Mathieu Ngouajio
GNC03-017	Effect of Sustainable Ground Floor Management Systems on Root System Dynamics of Apple and their Contribution to Carbon Sequestration and Nutrient Cycling in the Soil	\$9,977	Dario Stefanelli Michigan State University
GNC02-011	Integrating Cover Crops into Blueberry Production for Sustainable Japanese Beetle Control	\$10,000	Dr.Zsofia Szendrei Michigan State University

ON-FARM RESEARCH/PARTNER GRANTS

Project #	Project Title	SARE support	Project Leaders
ONC15-001	Northeast Michigan Aerial Cover Crop Seeding Demonstrations	\$29,810	James DeDecker Michigan State University Extension

YOUTH EDUCATOR GRANTS

Project #	Project Title	SARE support	Project Leaders
YENC16-096	An Agricultural Field Trip for Elementary Students from Prairieview (Lakeview, Battle Creek, MI)	\$1,996	Katie Bridges Prairieview Elementary
YENC16-104	Farmers Leading Youth (FLY) BeeKeeping	\$2,000	Jessica Patton
YENC16-103	Youth Service Corps: Addressing Food	\$2,000	Stephanie Onderchanin

	Access through Sustainable Food Systems Study & Community Service Projects		Allen Neighborhood Center
YENC15-086	Eastside Youth Service Corps: Expanding the Edible Hunter Park, Increasing Food Security, Promoting Sustainable Agriculture and Fostering Food Entrepreneurism	\$2,000	Rita O'Brien Allen Neighborhood Center
YENC14-074	Youth Service Corps Fruit Tree Project: Sustainable Approach to Neighborhood Fruit Access	\$2,000	Rita O'Brien Allen Neighborhood Center
YENC13-063	Green Tops Sustainable Agriculture Boot Camp	\$2,000	Elizabeth Longley The Baldwin Center
YENC13-066	Hancock Greenhouse Project	\$1,998	Brian Rajdl Hancock Public Schools
YENC12-058	Building Sustainable Agriculture Connections for Ypsilanti Farm to School	\$2,000	Deborah Weiker Food System Economic Partnership
YENC12-047	Detroit Arsenal Garden Project	\$1,371.40	Dave Galer U.S. Army Garrison-Detroit Arsenal
YENC12-046	Youth Intern Program at Growing Hope	\$2,000	Danielle Gartner Growing Hope
YENC10-036	Edible Avalon Summer Youth Program	\$1,807	Kristin Kaul Edible Avalon
YENC10-028	Engaging Youth in Neighborhood-based Urban Agriculture	\$2,000	Matthew McDermott Lansing Urban Farm Project
YENC10-032	GVSU Upward Bound TRIO Flower and Herb Garden at the GVSU Sustainable Agriculture Project	\$1,995.70	Levi Gardner Grand Valley State University
YENC09-013	The Early Bird Gets the Worm	\$1,977.44	Nate Beelen Whitefish Township Community School
YENC08-009	Leelanau Farm Connection	\$1,978	Pam Schmidt Michigan State University Extension - Leelanau Cou
YENC08-007	Michigan Envirothon	\$1,707	Svenja Drebes Michigan Association of Conservation Districts

YOUTH GRANTS

Project #	Project Title	SARE support	Project Leaders
YENC09-036	Student Report on the Northern Michigan Small Farms Conference	\$360	Megan Brown

YNC08-015	Custom Raised Broilers	\$400	Jared Reimann
YNC08-024	Grass-Fed Lamb Agriscience Project	\$400	Alexandria Schut
YNC08-027	Nature's Eco-Wicks	\$392.43	Laquetta Hogan
YNC08-013	Not Just Chicken	\$372.65	Marley Sukenik
YNC08-029	Sustainable Backyard Egg Production from a 9 Year Old's Perspective	\$394.35	AnnaLiesa Durling

**Total funding from the USDA SARE program to
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\$5,737,843**



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

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