

What is SARE?

Since 1988, the Sustainable Agriculture Research & Education (SARE) program has been the go-to USDA grants and outreach program for farmers, ranchers, researchers and educators who want to develop innovations that improve farm profitability, protect water and land, and revitalize communities. To date, SARE has awarded over \$309 million to more than 7,407 initiatives.

SARE is grassroots with far-reaching impact

Four regional councils of expert practitioners set priorities and make grants in every state and island protectorate.

SARE communicates results

SARE shares project results by requiring grantees to conduct outreach and grower engagement; and by maintaining an online library of practical publications, grantee-produced information products and other educational materials.



www.sare.org

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

Michigan

Project Highlight: *Developing Michigan's Local, Pasture-Based, Beef Production System*

Whether it's on dinner tables, in restaurants, in schools or at markets, consumers are seeking more local food. In 2010, the Traverse Bay Economic Development Corporation and Michigan Good Food Charter set a goal to source 20 percent of the food for the Traverse City area within a 100-mile radius by 2020. When Michigan State University's Jason Rowntree read that the meat portion of the plan was to be pasture-based if possible, he was inspired.

Rowntree set off to develop a local, pasture-based beef production system for Northwest Michigan. In 2012, he received a SARE grant to connect area beef producers, processors, distributors and retailers to meet Traverse City's 20 percent local-food benchmark. Rowntree's plan included identifying producers to participate in a value chain project called the Grand Vision Grass-fed Certification Program (GVGC), and after three years of participating in the GVGC program, seven producers are now producing grass-fed beef at scale and earning price premiums of 25 percent above the market rate. They also hosted seven pasture walks/field days attended by over 200 people in total, advancing their knowledge of grass-fed beef.

For more information on this project, see sare.org/projects, and search for project number [LNC12-345](#).

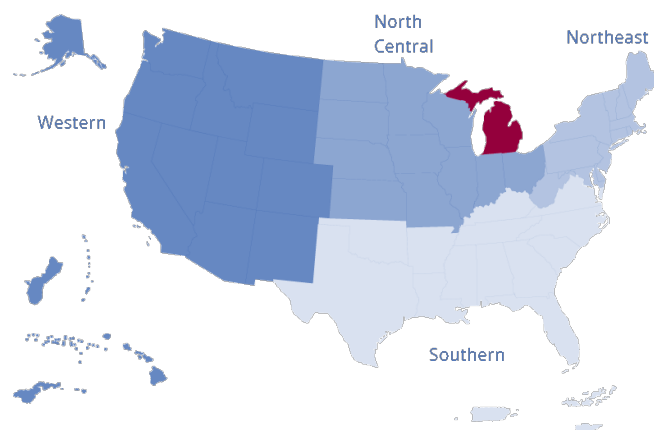
SARE in Michigan

northcentral.sare.org/state-programs/michigan

\$7,849,606
in total funding

275 grant projects
(since 1988)

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



SARE Grants in Michigan

Total awards: 275 grants



127 Farmer/Rancher
 47 Graduate Student
 4 On Farm
 Research/Partnership
 22 Professional
 Development Program
 45 Research and Education
 6 Youth
 24 Youth Educator

Total funding: \$7,849,606



\$996,130
 Farmer/Rancher
 \$490,763
 Graduate Student
 \$111,755
 On Farm
 Research/Partnership
 \$1,289,669
 Professional Development
 Program
 \$4,910,158
 Research and Education
 \$2,319
 Youth
 \$48,812
 Youth Educator

Find a complete list of projects on page 3.

SARE's Impact



53 percent

of producers report using a new production technique after reading a SARE publication.

79 percent

of producers said they improved soil quality through their SARE project.

64 percent

of producers said their SARE project helped them achieve higher sales.

Learn about local impacts at:

northcentral.sare.org/state-programs/michigan

Contact Your SARE State Coordinator

SARE sustainable ag coordinators run state-level educational programs for Extension and other ag professionals, and many help grant applicants and recipients with planning and outreach. Visit northcentral.sare.org/state-pages/michigan to learn more.

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For detailed information on SARE projects, go to

www.SARE.org

SARE is funded by the USDA's National Institute of Food and Agriculture (NIFA).

This report includes summaries of competitive grant programs only. Some competitive grant programs that are no longer offered may be included or excluded from the totals in this report depending on the grant program and SARE region.



AGRICULTURE PROJECTS FUNDED IN MICHIGAN

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

Michigan has been awarded \$7,849,606 grants to support 271 projects, including but not limited to, 41 research and/or education projects, 22 professional development projects and 127 producer-led projects. Michigan has also received additional SARE support through multi-state projects.

RESEARCH AND EDUCATION GRANTS

| Project # | Project Title | SARE Support | Project Leaders |
|-----------|--|--------------|---|
| LNC20-435 | Development and delivery of post-harvest spotted wing Drosophila cultural control tactics for for NCR tart cherry growers | \$208,507 | Dr. Matthew Grieshop Michigan State University |
| LNC20-437 | Values and adoption in regenerative grazing practices and associated wellbeing outcomes for cow-calf producers | \$249,999 | Dr. Jennifer Hodbod Michigan State University |
| LNC20-442 | Strategies for Adaptive Resilience in Sustainable Agriculture for Beginning and Historically Underserved Farmers | \$199,997 | Jennifer Silveri Michigan Integrated Food and Farming Systems (MIFFS) |
| LNC19-416 | Cultivating a morel mushroom industry in the North Central United States | \$199,993 | Dr. Gregory Bonito Michigan State University |
| LNC19-430 | Eastern Upper Michigan Sustainable Agriculture Curriculum Initiative | \$199,987 | Dr. Steve Yanni Bay Mills Community College |
| LNC18-413 | Enhancing healthfulness and demand of Upper Midwestern, locally produced beef | \$199,149 | Dr. Jason Rowntree Michigan State University |
| LNC17-394 | Land-Based Learning Centers: A multi-generational educational approach to promoting on-farm sustainable agriculture | \$151,408 | Dr. Matt Raven Michigan State University |
| 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 |
| LNC12-343 | 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 |
| LNC12-345 | A Local Pasture-Based Beef Production System for Northwest Michigan | \$181,342 | Dr. Jason Rowntree Michigan State University |
| 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 |

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| 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 Dr. Brett Blaauw Michigan State University |
| LNC08-302 | Connecting Landowners, Growers and Markets Using Purchase of Development Rights (PDR) | \$20,900 | Barry Lonik Ann Arbor Township |
| LNC07-276 | No-till pumpkins using cover crops | \$131,420 | Dr.Dale Mutch Michigan State University Extension |
| 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 |
| LNC06-267 | Farmers' Markets: A Real Opportunity for Michigan Fruit and Vegetable Growers | \$76,600 | Dr.Jim Bingen Michigan State University |
| 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 |
| LNC04-249 | Utilizing Native Plants to Enhance Insect and Weed Biological Control | \$150,000 | Dr.Douglas Landis Michigan State University |
| LNC04-251 | One year's seeding: a seedbank approach to sustainable weed management | \$149,903 | Karen Renner 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 |
| 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 | Dr.Richard Leep Richard Leep Consulting |
| 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 |
| LNC01-186 | 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 |
| LNC01-187 | Earthworks Garden and Poultry Urban CSA | \$99,706 | Ashley Atkinson Hunger Action Coalition |

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| 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 Agriculture Practices via Farmer-Driven Research | \$100,405 | Dr.Dale Mutch 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 |
| LNC91-041 | Legume Management Research for VA Mycorrhizal Enhancement in Potato Production | \$96,000 | Gene Safir 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 |
| 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 |
|------------------|--|---------------------|---|
| ENC20-189 | Soil Health Nexus: Strengthening Soil Health Programs for Educators and Farmers/Ranchers in the North Central Region | \$90,000 | Christina Curell Michigan State University Extension |
| ENC20-194 | Improved sustainable agriculture outreach through behavior-change focused outreach toolkit | \$86,391 | Adam Reimer National Wildlife Federation |
| ENC19-182 | Training Agricultural Professionals on Innovative Online Tools for Conservation Planning and Implementation | \$68,058 | Erica Rogers Michigan State University Extension |

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| ENC18-169 | Advancing Watershed Health Through Watershed Champions | \$74,993 | Adam Reimer National Wildlife Federation |
| 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 |
| ENC06-088 | The New Agriculture Network: an organic farming forum for education and research | \$75,000 | Dr.Dale Mutch Michigan State University Extension |
| ENC06-090 | Enhancing the Capacity of Educators and Farm Leaders to work with Socially Disadvantaged Latino Farmers | \$33,750 | Juan Marinez Michigan State University |
| 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 |
| ENC97-012.1 | Self-Directed Participatory Agent Learning | \$53,700 | Natalie Rector MSU Extension |
| ENC97-024 | Improving the Environment for Community Supported Agriculture in Michigan, Ohio, and Indiana | \$23,966 | Laura Delind |
| ENC96-011 | Accessing Community-Based Information Sources for Improving Surface Water Quality | \$14,300 | Rich Bowman Grand Valley State University |
| ENC96-012 | Participatory Learning Between Farms and Field Crop Area of Expertise Team Members | \$48,200 | Natalie Rector MSU Extension |
| ENC96-017 | In-Service Training in Sustainable Agriculture and Agricultural Ecology for NRCS Personnel and Partners | \$30,000 | Lawrence Dyer Kellogg Biological Station / Extension |

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| ENC95-003C | Developing Educational Materials and Schools for Sustainable and Profitable Grazing Systems | \$31,500 | Dr. Richard Leep Richard Leep Consulting |
| 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 |
|------------|--|--------------|--|
| FNC20-1255 | The Organic Production of Traditional Crops by Mixteco Farmers | \$9,000 | Filiberto Villa-Gomez Michigan Food & Farming Systems-MIFFS |
| FNC20-1233 | Organic IPM for Swede Midge on Small-Scale, Diversified Vegetable Farms | \$7,604 | Sarah Longstreth Good Stead Farm |
| FNC19-1155 | A Collaborative Research Project Evaluating Greensprouting as a Sustainable Pre-Planting Treatment for Seed Potato Minutubers Under Diverse Growing Conditions | \$27,000 | Melissa Boersema Sklarczyk Seed Farm LLC |
| FNC19-1170 | Testing aged manure for enhanced soil health and tree establishment in a pioneer chestnut orchard. | \$8,649 | Abby Johnson Ox Heights |
| FNC19-1173 | Intercropping Systems For Small Scale Vegetable Production | \$8,867 | Lance Kraai New City Neighbors |
| FNC19-1194 | Designing a Mobile Milking Parlor for an Multi-site Educational Goat Farm | \$8,650 | Leah Sienkowski Dreamgoats |
| FNC18-1113 | A Proof of Concept Experiment Evaluating a Greensprouting Pre-Planting Treatment to Increase Seed Potato Yields and Develop Sustainable Practices within the Potato Industry | \$7,500 | Melissa Boersema Sklarczyk Seed Farm LLC |
| FNC18-1118 | Bees, Pleeze! - Adding an educational component to a wildflower field at a Midwest blueberry farm | \$7,500 | Frank Corrado Moss Funnel Farms |
| FNC18-1119 | Practical exclusion netting for reducing disease vectors in high density apple systems | \$22,050 | Jordan Devries Mighty Oak Orchards |
| FNC17-1081 | Proof of Concept - Sustainable Chestnut Production in Northeast Lower Michigan | \$10,255 | Abby Johnson Ox Heights |
| FNC17-1090 | A Comparative On-farm Study of Root Crop Production and Postharvest Systems for Scaling Up Diversified Vegetable Farms | \$22,241 | Dru Montri Ten Hens farm |
| FNC17-1092 | A Youtube Series; An Introduction to Sustainable Agriculture for Growing Ecological Eaters | \$7,500 | Therese Niemier Bertrand Farm Inc |
| FNC17-1074 | Salad and Microgreens Automated Harvester Development | \$7,500 | David Coveyou COVEYOU FARMS |

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| 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 |
| FNC16-1050 | Using Small Ruminants to Improve Forage Availability in Michigan Equine Pastures | \$6,543 | Bess Ohlgren-Miller Arbor Meadow |
| FNC16-1057 | Developing a System of Tissue Culture and Hydroponic Growing Medium for Hop Plant Production | \$22,500 | Tim Small Great Lakes Hydrogrow LLC. |
| FNC16-1060 | Optimizing a Short Trellis System for Growing Cascade Hops in Michigan | \$7,500 | John Spieth Honeybee Farm |
| FNC16-1028 | Optimal Flock Size for Pasture Raised Layers | \$7,394 | Aaron Brower Bluestem Farm |
| FNC16-1033 | Open Source Automated Irrigation System for Small Farms, Urban Farms or Specialty Crops | \$7,442 | Christian Flickinger Renegade Acres |
| 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 |
| 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 |
| FNC14-945 | Demonstrating a Quick-Start Process to Help Small Blueberry Farmers Begin Transition To Organic Practices | \$22,439 | Frank Corrado Moss Funnel Farms |
| FNC14-946 | Chestnut Harvest Burr Management | \$7,390 | Carl DeKleine DeKleine Orchards, LLC |
| FNC14-951 | Building Capacity through Collaboration and Eliminating Urban Food Deserts | \$22,500 | Shakara Tyler MSU Center for Regional Food Systems Cary Junior SouthEast Michigan Producers Association (SEMPA) |
| 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 |
| FNC14-976 | Developing a Strategy For Utilizing Yard Waste Compost In A Corn And Soybean Rotation To Increase Soil Quality | \$15,736 | Ryan Schweihofer Schweihofer Farms |
| 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 |

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| 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 |
| 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 |
| FNC13-923 | Renovation and Ecological Management of Neglected Apple Orchards in Southeast Michigan | \$7,466 | Trevor Newman Roots to Fruits |
| FNC13-933 | Food Drying and Preservation in a Greenhouse Solar Dehydrator | \$7,476 | Patrick Scharinger Pond Hill Farm Kelly Doyle Pond Hill Farm |
| FNC13-941 | Organic Potato Variety Trial in Michigan's Upper Peninsula | \$2,246 | Michael Wixtrom Wixtrom Natural Farms |
| 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 |
| 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 |
| FNC10-826 | Meeting the Growing Demand for Organic Hops: Low-Trellis Organic Hop Production in the Great Lakes Region | \$17,720 | Brian Tennis New Mission Organics Dr.J Robert Sirrine Michigan State University |
| FNC10-804 | Michigan Organic Hops Production: utilizing current IPM models to investigate biocontrol effectiveness on hops pests and diseases in an organic production system | \$5,994 | Bonnie Steinman Jeffrey Steinman Hop Head Farms LLC |
| FNC10-809 | Growing, Processing, and Selling Omega-9 Canola Oil | \$5,969 | Dan Blackledge B & B Farms |
| FNC09-755 | Integrating Bats into Organic Pest Management | \$16,323 | Bill Erwin Erwin Orchards Steve Tennes The Country Mill Jane Bush Apple Schram Orchard |
| FNC09-757 | Exploring sustainable options for conservation of small woodland parcels through wild-crafting crops | \$3,584 | Merrill Clark Lisa Jackson Growing Obsessions Nursery Lisa Lovell |
| FNC09-778 | Cow Taxi Project | \$5,815 | Jeff Lubbers Lubbers Family Farm Karen Lubbers Lubbers Family Farm |
| 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 |
| FNC08-735 | Utilizing Waste Cardboard for Livestock Bedding on Small Farms | \$2,300 | Doreen Passuello |

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| 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 |
| FNC07-654 | Establishing a Regional Community Food Project in Rural Northeast Michigan | \$18,000 | Brian Botkin |
| 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 |
| FNC07-662 | Evaluating Modified Relay Intercropping (MRI) in Ingham County, Michigan | \$17,925 | Tony Ig |
| FNC06-618 | Growing Community Supported Agriculture with Day-Long Mini Schools | \$4,200 | Jim Sluyter |
| FNC06-639 | Evaluating Corn, Soybean and Wheat Varieties in Organic Farm Systems in Michigan | \$17,608 | Ivan Morley |
| FNC06-603 | Identifying a Market for Woody Florals, and Other Specialty Cut Flowers in Michigan | \$1,599 | Dixie Sandborn |
| FNC05-548 | Continuous Fiber Felting Machine | \$6,000 | Suzanne Pufpaff Pufpaffs Fiber Processing, LLC |
| 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 |
| FNC05-556 | George Washington Carver's Garden: Farm Model and Mentoring Program for Seniors and Youth | \$18,000 | Robert Crowder |
| 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 Straub family farm |
| FNC05-589 | Growing New CSA Farmers: Conference and Mini-School for Community Supported Agriculture | \$14,000 | Jim Sluyter |
| 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 |

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| FNC04-509 | Garber's Summer Farm Day Camp | \$4,166 | Cindy Garber |
| FNC04-526 | Free Range Egg Cooperative | \$12,475 | Sam Catey |
| FNC03-439 | Pasture Improvement Trial: Enhancing Results By Analyzing Samples and Observing Cattle Grazing Preferences | \$6,000 | Mike Iho |
| FNC03-440 | Designing My Path into Sustainable Organic Farming | \$5,448 | Roy Monzo |
| FNC03-462 | Establishing Successful Organic Orchards | \$6,000 | Peter Ways |
| 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 |
| FNC02-391 | Mill Race Center Farmers Market Community Supported Agriculture Outreach Program | \$12,800 | Beth Neff |
| FNC02-401 | Pasture Improvement Trial | \$1,197 | Mike Iho |
| FNC02-418 | Meeting the Needs of the Michigan Craft Brewing Industry: The Potential of Barley and Hops As Alternative Crops | \$9,357 | Wendell Banks |
| FNC02-432 | Small Scale/Youth Organic Gardening Project Continuation | \$18,000 | Leroy Ray, Jr. The Farm School Cooperative |
| FNC01-356 | Organic Dairy | \$11,700 | Chuck Oliver Oliver Farm |
| FNC01-369 | Determination of Market and Profit Feasibility for an Organic Specialty Cut Flower Business in a Rural Northern Michigan Community | \$5,000 | Kim Smith-Potts |
| FNC01-384 | CSA Dairy | \$5,000 | Gene Allen |
| FNC01-340 | Bats as Part of a Sustainable Pest Management Approach to Controlling Moth Pests in Commercial Apple Production | \$4,799 | James Koan |
| FNC01-344 | Incorporating Minority Farmers in the Sustainable Agricultural Movement | \$5,000 | Roger Outlaw |

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| FNC00-292 | Multi-farm CSA: A Group Marketing Initiative for Rural Northern Michigan | \$14,890 | Rick Meisterheim |
| FNC00-306 | A Youth-operated Certified Compost Production and Distribution Scheme | \$15,000 | Leroy Ray, Jr. The Farm School Cooperative |
| FNC00-307 | Pathogen Reduction in Apple Cider Production | \$4,450 | Michael Beck Cider Production Manager |
| FNC00-322 | Cutting the Red Tape: Processing Pastured Poultry to Meet Market Demands | \$5,125 | Kay Jones |
| FNC00-325 | Building a Thermal-Blast Peeler to Prepare Chestnut for On-Farm, Value-Added Processing | \$5,082 | Corey Allen |
| 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 |
| FNC99-260 | Heirloom Apples | \$5,000 | Pepper Bromelmeier |
| FNC99-264 | Organic Marketing Cooperative | \$9,254 | Thomas Judge |
| FNC99-268 | Flexible Low-cost Poultry Processing | \$4,180 | Jack Knorek Oak Moon Farm |
| FNC99-277 | Utilizing Breeding Ewes' Grazing Abilities for Pasture and Crop Residue to Lengthen the Grazing Season | \$4,325 | Tamra Ashley |
| FNC99-250 | Researching the Cost-effectiveness of Building a State-licensed, Mobile Poultry Processing Facility as a Regional Farmers' Group | \$14,967 | Rick Meisterheim |
| FNC98-202 | Expanding Partnerships between Southern Michigan Cash Crop Farmers and Northern Michigan Livestock Farmers | \$5,000 | Henry Miller |
| FNC98-203 | Southwestern Michigan Marketing Plan for Locally-Grown Produce | \$10,000 | Phillip Prillwitz |
| FNC98-204 | On-Farm Market for High Quality, Locally Grown Products and an Experience for School Children | \$4,490 | Pamela Bosserd |
| FNC98-213 | You-Pick for the Handicapped | \$5,000 | Thomas Robinson S&S Farm Market and Greenhouse |
| FNC98-236 | Cover Crops' Influence on Soil Quality in No-Till Corn/Soybean Rotations | \$5,000 | Gary Manley |
| FNC98-240 | Utilizing Alternative Methods for Silage Harvest and Storage | \$5,000 | David McCartney |

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| FNC97-168 | Developing Partnerships between Southern Michigan Cash Crop Farmers and Northern Michigan Livestock Producers | \$5,000 | Henry Miller |
| FNC97-199 | Processing and Marketing Milk Produced on our Small Dairy Farm | \$5,000 | George Shetler |
| FNC97-170 | Integrated Row Tillage Project | \$3,523 | Todd Williams |
| 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 |
| FNC97-183 | Transition from Traditional Grain or Livestock Agriculture to On-farm Roadside Marketing of Produce | \$5,000 | Pamela Bosserd |
| 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 |
| FNC97-187 | Marketing On-farm Composted Manure | \$9,700 | Joe Slater |
| FNC97-167 | Innovative Farmers Seeking Sustainable Solutions through On-farm Demonstrations | \$4,750 | Kevin Vandy-Bogurt |
| FNC97-189 | The Economics of Seed Saving on Three Biological Farms in Western Michigan | \$4,676 | Paul Keiser |
| FNC96-139 | Permaculture Greenhouse System: Integrating Greenhouse and Poultry Production | \$5,000 | Rick Meisterheim |
| FNC96-152 | Extending the Vegetable Growing Season in Northern Michigan with Polyhouses | \$2,696 | James Chadwick |
| FNC96-155 | Using Forage and Grazing Systems as an Alternative to Row Crops on Michigan Muck Soils | \$5,000 | John Oswalt |
| FNC95-113 | Nitrogen Management on Sandy Soils for Environmentally and Economically Sustainable Corn Production | \$5,000 | Edmond Groholski |
| FNC95-122 | Stockpiling Pasture by Interseeding Annual Rye into Existing Pastures | \$640 | Chuck Cornillie |
| FNC95-125 | Improving Ground and Surface Water Quality by Reducing Commercial Fertilizer Applications to Land Receiving Livestock Manures | \$4,644 | Calvin Dyke |

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| FNC95-109 | The Development of an On-farm Learning Cener | \$5,000 | Bob Fogg |
| FNC94-061 | Livestock Watering Systems | \$3,604 | Joe Golimbieski |
| FNC94-065 | Implementing Sustainable Agricultural Practices to Attain Organic Certification | \$5,000 | Bob Carriveau |
| FNC94-066 | Pasture Renovation and Reseeding | \$3,325 | John Milbocker |
| FNC94-077 | Composting Swine Carcasses | \$2,900 | Ed Fisher |
| FNC94-083A | On-Farm Composting of Livestock Manure | \$2,500 | Joe Slater |
| FNC94-083B | On-Farm Composting of Livestock Manure | \$2,500 | Bob Wackernagel |
| FNC94-086 | Developing a Stewardship Plan for Water Quality | \$4,538 | Tom Guthrie |
| FNC93-035 | Intensive Rotational Grazing for Sheep | \$1,868 | John Oswalt |
| FNC93-037 | Manure Composting in Dairy Operations | \$2,600 | George Shetler |
| FNC93-043 | Evaluating Forages in Rotational Grazing System for Dairy | \$4,688 | Dale Kellenberger |
| FNC93-049 | Evaluating Liquid Manure as Nutrient Source in a Commercial Orchard | \$4,551 | John Muma |
| FNC93-050 | Composting Rural and Urban Waste | \$4,950 | Marlin Goebel |
| FNC93-056 | Bio-Control of Colorado Potato Beetle Utilizing Poultry | \$2,044 | Quinn Cumberworth |
| FNC92-024 | Production and Marketing of Organic Beef | \$2,020 | Kathy Theil |

GRADUATE STUDENT GRANTS

| Project # | Project Title | SARE Support | Project Leaders |
|-----------|---|--------------|--|
| GNC20-312 | Exploring how farmers' perceptions of soil health affect their management decisions | \$12,710 | Michigan State University W.K. Kellogg Biological Station Tayler Ulbrich Michigan State University |
| GNC19-283 | Improving N management in processing carrots using drone-based remote sensing for more sustainable production | \$14,563 | Zachary Hayden Horticulture, Michigan State University Michael Metiva Michigan State University |

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| GNC19-284 | Sustainable Weed Control: In-Row Weed Cultivation Strategies for Midwest Vegetable Growers | \$10,738 | Daniel Brainard Michigan State University Daniel Priddy Michigan State University |
| GNC19-290 | Integrating manure composition from portable spectroscopy with simulation modeling to evaluate long-term dynamics of manure mineralization and sustainability of cropping systems | \$14,055 | Dr. Bruno Basso University Foundation Professor, Department of Earth and Environ Ben Tirrell Michigan State University |
| GNC19-280 | Detection of Tarnished Plantbugs, Apple Maggots, and Codling Moths in Bats' Diet in Southern Michigan Apple Orchards | \$14,889 | Dr. Amy Russell Grand Valley State University Randi Lesagonicz Grand Valley State University |
| GNC19-282 | Incorporating biochar into urban agroecology | \$14,140 | Diarmaid Ó Foighil Nicholas Medina University of Michigan |
| GNC18-255 | Cover Crop Mixtures for Nitrogen Use Efficiency on Grain/Arms in Southern Michigan | \$11,970 | Dr. Jennifer Blesh University of Michigan Alison Bressler University of Michigan |
| GNC18-268 | Nutrition Management for European Foulbrood (EFB) Recovery in Honey Bees | \$11,995 | Dr. Rufus Isaacs Dr. Gabriela Quinlan Michigan State University |
| GNC17-244 | Measuring Farmer Response to the Rate of Agricultural Innovation: Experimental Evidence from Michigan | \$11,979 | Dr. Nicole Mason Michigan State University Stephen Morgan Michigan State University |
| GNC17-251 | Optimizing between-bed management strategies in plasticulture vegetables for improved crop production and soil health | \$12,000 | Zachary Hayden Horticulture, Michigan State University Alyssa Tarrant Michigan State University |
| GNC16-225 | Luring Generalist Predators from Field Borders to Control Crop Pests | \$11,728 | Zsafia Szendrei Michigan State University Dr. Adam Ingrao Michigan State University Extension |
| GNC16-223 | Green Tools: Improving Sustainability by Integrating New In-Row Cultivation Equipment and Competitive Cultivars | \$11,994 | Daniel Brainard Michigan State University Sam Hitchcock Tilton Department of Horticulture, Michigan State University |
| GNC15-205 | Sustainable Pest Management Approaches for Raspberry Growers | \$9,979 | Dr. Rufus Isaacs Dr. Heather Leach 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 | Dr. Catherine Lindell Michigan State University Megan Shave Michigan State University |
| GNC14-192 | Linking Soil Testing with Farmer Decision Making - An Interdisciplinary Approach | \$6,853 | Dr. Phil Robertson Michigan State University/ Kellogg Biological Station Brendan O'Neill Michigan State University |
| GNC14-194 | Integrating Flowering Windbreaks for Insect Management in Cucumbers | \$9,989 | Zsafia Szendrei Michigan State University Nicole Quinn Michigan State University |

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| GNC14-196 | Biodiversity Effects on Soil carbon Gain in Annual and Perennial Cropping Systems | \$6,382 | Dr.Phil Robertson Michigan State University/ Kellogg Biological Station Dr.Christine Sprunger The Ohio 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 | Gregory Lang Michigan State University Tiffany Lillrose Michigan State University |
| GNC13-177 | Effects of Pest Management and Conservation Plantings of Bee Communities in Highbush Blueberry | \$9,962 | Dr.Rufus Isaacs Dr. Emily May Michigan State University |
| GNC13-181 | Use of Water Mist to Protect Tree Fruit from Spring Frost Damage | \$9,865 | James Flore Jeffrey Andresen Michigan State University Ishara Rijal Michigan State University |
| GNC13-164 | Quantification of Nitrogen Lost to Greenhouse Gas Emissions in Cover Crop Systems | \$9,924 | Dr.Dale Mutch Michigan State University Extension Victoria Ackroyd Michigan State University |
| GNC13-171 | Understanding the Economics of Hoophouse Crops in Northern Climates | \$9,999 | Bridget Behe Michigan State University Laura Haselhuhn Michigan State University |
| GNC12-158 | Improving Resource Use Efficiency Through Strip Tillage, Cover Cropping, and Deep Fertilizer Placement | \$9,915 | Daniel Brainard Michigan State University Dr.Sieglinde Snapp Michigan State University Erin Haramoto University of Kentucky |
| GNC10-117 | Nitrogen Mineralization from Weed Residues | \$9,544 | Dr.Kurt Steinke Michigan State University Laura Bast Michigan State University |
| GNC10-134 | Artisanal Agrifood Processing and Food Safety Regulation: Responding to the Concerns of Small Processors and Regulators in Michigan | \$9,903 | Dr.Jim Bingen Michigan State University 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 | Daniel Brainard Michigan State University Carolyn Lowry Michigan State University |
| GNC10-146 | Low Tunnel Strategies for Microclimate Modification and Early Vegetable Production | \$9,591 | Mathieu Ngouajio Rebekah Struck Faivor Michigan State Univ |
| 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 | Dr.Rufus Isaacs Dr. Brett Blaauw Michigan State University |
| GNC09-108 | A novel approach for optimizing the benefits of cereal-legume cover crop mixtures in vegetable cropping systems | \$9,983 | Daniel Brainard Michigan State University Mathieu Ngouajio Zachary Hayden Horticulture, Michigan State University |
| GNC08-095 | Treatment of Agricultural Runoff Using Filter Strip | \$10,000 | Dr.Steve Safferman Michigan State University Dr.Rebecca Larson Univesrity of Wisconsin-Madison |

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| GNC08-096 | Best Hispanic Farmer's Management and Marketing Strategies in Michigan | \$9,950 | Dr.Jim Bingen Michigan State University Lourdes Martinez Michigan State University |
| GNC08-097 | Sustaining Farmers Markets that Serve Low-Income Consumers | \$9,995 | Kimberly Chung Michigan State University Dru Montri Michigan State University |
| GNC08-099 | Determination of the relationship between soil nutrients, mycorrhizae, and plant health in organic blueberry production | \$9,900 | Dr.Annemiek Schilder Michigan State University Jesse Sadowsky Michigan State University |
| GNC07-080 | Advanced cropping system for sustainable production of Fraser fir (Abies Fraseri) in Christmas tree productions | \$10,000 | Pascal Nzokou Michigan State University Dr.Paligwende Nikiema Michigan State University |
| GNC07-082 | Demonstration of a sustainable method of Beauveria bassiana delivery for use against plum curculio | \$9,822 | Mark Whalon Michigan State University Renee Pereault Michigan State University |
| GNC07-086 | Evaluation of supplemental flowering plant strips for sustainable enhancement of beneficial insects | \$9,797 | Dr.Rufus Isaacs Dr. Nathaniel Walton Michigan State University |
| GNC06-063 | Development of winter cover crop varieties and complementary mixtures for North Central Region grain systems | \$9,882 | Dr.Sieglinde Snapp Michigan State University Brook Wilke Michigan State University |
| GNC06-064 | Improved management of striped cucumber beetle , Acalymma vittatum (F.) (Coleoptera: Chrysomelidae) by using a squash trap crop and a polyculture of cucumber and tomato. | \$10,000 | Dr.Mike Brewer Michigan State University Dr.Edward Grafius Michigan State University Matthew Kaiser Michigan State University |
| GNC06-065 | Integrating and Evaluating Livestock Guarding Dogs for Reducing Wolf-Human Conflict on Michigan Farms | \$7,504 | Thomas Gehring Central Michigan University Anna Cellar Central Michigan University |
| GNC06-069 | Distribution Strategies for Developing Farm-to-School Connections | \$9,784 | Mike Hamm Community, Agriculture, Recreation & Resource Stud Betty Izumi 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 Michigan State University |
| GNC05-050 | Managing Crop Residues: Balancing Soil Quality and Farm Profitability | \$9,970 | Dr.Phil Robertson Michigan State University/ Kellogg Biological Station Terrance Loecke Michigan State University |
| GNC05-056 | An Interdisciplinary Framework for Sustainable Tart Cherry (Prunus cerasus L.) Production | \$10,000 | Deborah Letourneau University of California J Robert Serrine Department of Environmental Studies |
| GNC04-037 | Community Farmers: The Pathways and Opportunities to Success for New, Innovative Farmers in Michigan | \$9,720 | Dr.Jim Bingen Michigan State University Taylor Reid Michigan State University |
| GNC04-036 | Cropping System to Improve Vegetable Production Under Short Crop Rotation | \$10,000 | Mathieu Ngouajio Mohan Salvaraj Michigan State University |

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| 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 | Ronald Perry Dario Stefanelli Michigan State University |
| GNC02-011 | Integrating Cover Crops into Blueberry Production for Sustainable Japanese Beetle Control | \$10,000 | Dr.Rufus Isaacs Dr. Dr.Zsofia Szendrei Michigan State University |

ON FARM RESEARCH/PARTNERSHIP GRANTS

| Project # | Project Title | SARE Support | Project Leaders |
|-----------|--|--------------|--|
| ONC18-042 | Developing Profitable Double-Crop Systems after Winter Barley | \$26,730 | Dr.Maninderpal Singh Michigan State University |
| ONC18-051 | Evaluating agritourism strategies for small scale sustainable agriculture operations | \$29,620 | 6166087436Garrett Ziegler Michigan State University Extension |
| ONC17-025 | Cultivating partnerships: Building Farm-research Networks for Improved Physical Weed Control | \$25,595 | Daniel Brainard Michigan State University |
| ONC15-001 | Northeast Michigan Aerial Cover Crop Seeding Demonstrations | \$29,810 | Dr.James DeDecker Michigan State University AgBioResearch and Extension |

YOUTH EDUCATOR GRANTS

| Project # | Project Title | SARE Support | Project Leaders |
|------------|---|--------------|---|
| YENC20-150 | Educating Youth in Sustainable Farming and Value Added Production. | \$3,981 | Lance Kraai New City Neighbors |
| YENC18-127 | Urban Farming as a Sustainable Business | \$2,000 | Tommy McDoniel Asbury CDC |
| YENC18-128 | Flowers for Food and Thought | \$2,000 | Joan Nelson Allen Neighborhood Center |
| YENC18-130 | Grow Healthy, Lansing! Nutrition Education in the Edible Schoolyard | \$2,000 | Stephanie Onderchanin NorthWest Initiative |
| YENC18-120 | Avalon Housing's Youth Leadership Program | \$2,000 | Ashley Blake |
| YENC18-126 | TechGYRLS Sustainable Agriculture Overnight Camp | \$2,000 | Dr.Grace Lubwama YWCA Kalamazoo |
| YENC17-111 | New City Farm Youth Gardening & Cooking Club Education Project | \$2,000 | Alaina Dobkowski New City Neighbors |
| YENC17-118 | Pondering Pollinators | \$2,000 | Josh Wald-Kerr Allen Neighborhood Center |
| YENC16-096 | An Agricultural Field Trip for Elementary Students from Prairieview (Lakeview, Battle Creek, MI) | \$1,996 | Katie Bridges Prairieview Elementary |
| YENC16-103 | Youth Service Corps: Addressing Food Access through Sustainable Food Systems Study & Community Service Projects | \$2,000 | Josh Wald-Kerr Allen Neighborhood Center |

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| YENC16-104 | Farmers Leading Youth (FLY) BeeKeeping | \$2,000 | Jessica Patton Neighborhood Building Urban Gardens |
| 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 |
| YENC12-046 | Youth Intern Program at Growing Hope | \$2,000 | Danielle Gartner Growing Hope |
| YENC12-047 | Detroit Arsenal Garden Project | \$1,371 | Dave Galer U.S. Army Garrison-Detroit Arsenal |
| YENC12-058 | Building Sustainable Agriculture Connections for Ypsilanti Farm to School | \$2,000 | Deborah Weiker Food System Economic Partnership |
| 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 | \$1,996 | Levi Gardner Grand Valley State University |
| YENC09-013 | The Early Bird Gets the Worm | \$1,977 | Nate Beelen Whitefish Township Community School |
| YENC08-007 | Michigan Envirothon | \$1,707 | Svenja Drebes Michigan Association of Conservation Districts |
| YENC08-009 | Leelanau Farm Connection | \$1,978 | Pam Schmidt Michigan State University Extension - Leelanau Cou |

YOUTH GRANTS

| Project # | Project Title | SARE Support | Project Leaders |
|-----------|--|--------------|-----------------|
| YNC09-036 | Student Report on the Northern Michigan Small Farms Conference | \$360 | Megan Brown |
| YNC08-013 | Not Just Chicken | \$373 | Marley Sukenik |
| YNC08-015 | Custom Raised Broilers | \$400 | Jared Reimann |

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| YNC08-024 | Grass-Fed Lamb Agriscience Project | \$400 | Alexandria Schut |
| YNC08-027 | Nature's Eco-Wicks | \$392 | Laquetta Hogan |
| YNC08-029 | Sustainable Backyard Egg Production from a 9 Year Old's Perspective | \$394 | AnnaLiesa Durling |

**Total funding from the USDA SARE program to
Michigan
\$7,849,606**



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

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