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 $389 million to more than 8,542 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.

SARE in Michigan

northcentral.sare.org/state-programs/michigan

$9,954,366 in total funding

314 grant projects

(since 1988)

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

Project Highlight: Physical Weed Control Strategies for Midwest Vegetable Growers

Managing and controlling weeds can be a challenge and frustration for farmers, no matter the farm size or crop. Michigan State University’s Daniel Brainard knows that weed management represents a significant barrier to the sustainable production of field and vegetable crops and has been researching and demonstrating tools and techniques for physical weed control.

"Advances in material science and engineering have resulted in new tools and techniques for physical weed control (PWC) that can help address these constraints and simultaneously improve profitability and environmental health in the North Central region," said Brainard.

Brainard works with a network of farmers and researchers that has been working to generate practical, farm-tested, and detailed observations on the best methods and tools for managing in-row weeds. The team has explored in-row, mechanical cultivation with torsion weeders, flex-tine cultivators, finger weeders, and disk hillers in crops like squash, carrots, beans, and beets. With support from SARE, they have created videos of the various tools in action and recorded interviews of farmers and manufacturers describing the tools. They have also hosted multiple Midwest Mechanical Weed Control Field Days, the nation’s largest event devoted to weeding tools.

A Brainard lab alumnus and horticulture instructor at Lakeshore Technical College, Sam Hitchcock Tilton, says the greatest expense in vegetable production is weed control, especially within the crop row. He says these in-row tools can substantially reduce hand-weeding costs for vegetable growers.

For more information on these projects, see sare.org/projects, and search for project numbers GNC16-223, ONC17-025, GNC19-284, and GNC21-324.
SARE Grants in Michigan

Total awards: 314 grants

- 51 Research and Education
- 26 Professional Development Program
- 136 Farmer/Rancher
- 57 Graduate Student
- 7 On Farm Research/Partnership
- 31 Youth Educator
- 6 Youth

Total funding: $9,954,366

- $6,141,034 Research and Education
- $1,739,116 Professional Development Program
- $1,095,918 Farmer/Rancher
- $637,129 Graduate Student
- $249,561 On Farm Research/Partnership
- $89,289 Youth Educator
- $2,319 Youth

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.

Sarah Fronczak
Michigan State University
(517) 439-9301
froncza3@msu.edu

Emily Proctor
(231) 439-8927
proctor8@msu.edu

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 $9,954,366 grants to support 310 projects, including but not limited to, 47 research and/or education projects, 26 professional development projects and 136 producer-led projects. Michigan has also received additional SARE support through multi-state projects.

### RESEARCH AND EDUCATION GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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<tr>
<td>LNC23-478</td>
<td>Demonstration of a new method to eliminate bovine leukemia virus from your dairy herd by targeting culling of the most infectious cattle</td>
<td>$249,999</td>
<td>Dr. Tasia Kendrick&lt;br&gt;Michigan State University</td>
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<td>LNC23-487</td>
<td>A Sustainable, Non-Chemical Thinning Method for US Midwestern Apple Producers: Novel Use of Anti-Hail, Insect-Exclusion Netting</td>
<td>$247,265</td>
<td>Todd Einhorn&lt;br&gt;Michigan State University</td>
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<td>LNC23-489</td>
<td>Enhancing sustainable pollination on urban farms using native plant conservation strips and outreach</td>
<td>$250,000</td>
<td>Zsofia Szendrei&lt;br&gt;Michigan State University</td>
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<td>LNC23-494</td>
<td>Exploring the efficacy of prairie strips as a soil health promoting practice</td>
<td>$119,055</td>
<td>Dr. Christine Sprunger&lt;br&gt;Michigan State University</td>
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<td>LNC22-462</td>
<td>Evaluating an under-utilized species for climate resilient forage and cover crop options in North Central Region cropping systems</td>
<td>$249,932</td>
<td>Dr. Krista Isaacs&lt;br&gt;Michigan State University</td>
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<td>LNC22-468</td>
<td>Taking the sting out of honey bee medicine: Training and tools for veterinarians to increase access to care for beekeepers</td>
<td>$114,625</td>
<td>Meghan Milbrath&lt;br&gt;Michigan State University</td>
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<td>LNC20-435</td>
<td>Development and delivery of post-harvest spotted wing Drosophila cultural control tactics for for NCR tart cherry growers</td>
<td>$208,507</td>
<td>Marianna Szucs&lt;br&gt;Michigan State University</td>
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<td>LNC20-437</td>
<td>Values and adoption in regenerative grazing practices and associated wellbeing outcomes for cow-calf producers</td>
<td>$249,999</td>
<td>Dr. Matt Raven&lt;br&gt;Michigan State University</td>
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<td>LNC19-416</td>
<td>Cultivating a morel mushroom industry in the North Central United States</td>
<td>$199,993</td>
<td>Dr. Gregory Bonito&lt;br&gt;Michigan State University</td>
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<td>LNC19-430</td>
<td>Eastern Upper Michigan Sustainable Agriculture Curriculum Initiative</td>
<td>$199,987</td>
<td>Dr. Steve Yanni&lt;br&gt;Bay Mills Community College</td>
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<td>LNC18-413</td>
<td>Enhancing healthfulness and demand of Upper Midwestern, locally produced beef</td>
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<td>Dr. Jason Rowntree&lt;br&gt;Michigan State University</td>
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<tr>
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<td>LNC17-394</td>
<td>Land-Based Learning Centers: A multi-generational educational approach to promoting on-farm sustainable agriculture</td>
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<td>LNC14-361</td>
<td>Insectary Plants to Enhance Beneficial Insects: Expanding the Palette to Increase Options for Sustainable Crop Production in the NC Region</td>
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<td>Dr. Douglas Landis</td>
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<td>LNC12-343</td>
<td>Non-Antibiotic Alternatives for Bovine Mastitis Therapy</td>
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<td>LNC12-344</td>
<td>On-farm Organic Soybean Variety Trials</td>
<td>$199,153</td>
<td>Robert Battel</td>
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<td>LNC12-345</td>
<td>A Local Pasture-Based Beef Production System for Northwest Michigan</td>
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<td>LNC08-297</td>
<td>Native Plant Conservation Strips for Sustainable Pollination and Pest Control in Fruit Crops</td>
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<td>LNC08-307</td>
<td>Diversity - The Continuing Face of Sustainable Agriculture</td>
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<td>Barbara Norman</td>
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<td>LNC07-276</td>
<td>No-till pumpkins using cover crops</td>
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<td>Dr. Dale Mutch</td>
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<td>LNC07-281</td>
<td>Developing pest management guidelines for organic production of highbush blueberries in the North Central Region</td>
<td>$149,991</td>
<td>Dr. Annemiek Schilder</td>
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<td>LNC06-267</td>
<td>Farmers’ Markets: A Real Opportunity for Michigan Fruit and Vegetable Growers</td>
<td>$76,600</td>
<td>Dr. Jim Bingen</td>
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<td>LNC06-268</td>
<td>Examining the Sustainability of Copper Use for Disease Management and Horticultural Benefit in Tart Cherry Systems</td>
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<td>George Sundin</td>
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<td>LNC04-244</td>
<td>Integrating Cropping and Nutrient Management Systems on Grass-Based Dairies with Manure Slurry Enriched Micro-Site Seeding</td>
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<td>Timothy Harrigan</td>
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<td>LNC04-249</td>
<td>Utilizing Native Plants to Enhance Insect and Weed Biological Control</td>
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<td>One year's seeding: a seedbank approach to sustainable weed management</td>
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<td>LNC03-234</td>
<td>Calcium Inputs for Soil Quality Improvement</td>
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<tr>
<td>LNC02-203</td>
<td>Determining Adaptation of Mono- and Binary Mixtures of Improved Red and Ladino Clovers and Perennial Grasses, Including Perennial Ryegrasses, in the Great Lakes Region</td>
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<td>Dr. Richard Leep</td>
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<td>LNC02-215</td>
<td>Multi-Cultural Farmer Mentors</td>
<td>$99,880</td>
<td>Thomas Guthrie, Jr</td>
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<td>LNC02-217</td>
<td>User/Grower Educational Materials and Training for Polyethylene Film High Tunnel Winter Production and Harvesting of Organic Salad Greens and Vegetables</td>
<td>$43,274</td>
<td>John Biernbaum</td>
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<tr>
<td>LNC01-186</td>
<td>Educational Materials and Training that Foster Implementation of Ecologically Based Pest Management Decision-Making in Great Lakes Apple Production</td>
<td>$63,117</td>
<td>David Epstein</td>
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<tr>
<td>LNC01-187</td>
<td>Earthworks Garden and Poultry Urban CSA</td>
<td>$99,706</td>
<td>Ashley Atkinson</td>
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<td>LNC01-195.1</td>
<td>Innovative Tart Cherry Orchard Systems: Design, Evaluation, and Demonstration</td>
<td>$90,742</td>
<td>David Epstein</td>
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<td>LNC99-159</td>
<td>Financial Indicators of Sustainability on Michigan Farms</td>
<td>$27,900</td>
<td>John Durling</td>
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<tr>
<td>LNC98-139</td>
<td>Innovative Tart Cherry Orchard Systems: Design, Evaluation, and Demonstration</td>
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<td>Charles Edson</td>
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<tr>
<td>LNC97-112</td>
<td>Enhancing Adoption of Sustainable Agriculture Practices via Farmer-Driven Research</td>
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<td>Dr. Dale Mutch</td>
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<td>LNC95-082</td>
<td>Domestic Birds as Weed and Insect Pest Biocontrol Agents: Field Experimentation and On-Farm Evaluation</td>
<td>$25,200</td>
<td>Laura Delind</td>
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<tr>
<td>LNC95-085</td>
<td>Ecological Principles of Habitat Management for Weed and Insect Biological Control</td>
<td>$94,923</td>
<td>Dr. Douglas Landis</td>
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<td>LNC94-064</td>
<td>Integrated System for Sustainability of High Value Field Crops</td>
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<tr>
<td>LNC93-057</td>
<td>Improving Nitrogen Utilization with Rotation and Cover Crops</td>
<td>$93,799</td>
<td>Richard Harwood</td>
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<td>LNC92-052</td>
<td>The Adoption of LISA Techniques of Pest Management by North Central Fruit Growers</td>
<td>$42,410</td>
<td>Craig Harris</td>
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<td>LNC91-022.1</td>
<td>Development and Demonstration of Methods toward Sustainable Apple Production: Continuation of Systems Integration</td>
<td>$18,000</td>
<td>Stuart Gage</td>
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<tr>
<td>Project #</td>
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<tr>
<td>LNC91-039</td>
<td>A Landscape Ecological Perspective in Insect and Weed Population Regulation in Low-Input and Conventional Systems</td>
<td>$75,000</td>
<td>Dr. Douglas Landis Michigan State University</td>
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<td>LNC91-041</td>
<td>Legume Management Research for VA Mycorrhizal Enhancement in Potato Production</td>
<td>$96,000</td>
<td>Gene Safir Michigan State University</td>
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<tr>
<td>LNC89-022</td>
<td>Development and Demonstration of Methods toward Sustainable Apple Production</td>
<td>$24,500</td>
<td>Stuart Gage Michigan State University</td>
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</table>

**PROFESSIONAL DEVELOPMENT PROGRAM GRANTS**

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<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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</thead>
<tbody>
<tr>
<td>ENC23-221</td>
<td>Expanding Regional Economic and Livestock Integration Soil Health Information and Resources</td>
<td>$119,911</td>
<td>Christina Curell Michigan State University Extension</td>
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<tr>
<td>ENC23-222</td>
<td>Seeding Success: A Food-Grade Grain Production Curriculum for Midwest Farmer Advisors</td>
<td>$119,743</td>
<td>Dr. Julie Doll Michigan Agriculture Advancement</td>
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<tr>
<td>ENC23-232</td>
<td>Building Capacity for Agricultural Education and Resource Professionals to serve sustainable urban agriculture producers and organizations</td>
<td>$119,881</td>
<td>Garrett Ziegler Michigan State University Extension</td>
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<tr>
<td>ENC21-207</td>
<td>Growing the Impact: Building Capacity for Statewide and Regional Food System Plans</td>
<td>$89,912</td>
<td>Lindsey Scalera Michigan State University Center for Regional Food Systems Jude Barry Meagan Shedd</td>
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<tr>
<td>ENC20-189</td>
<td>Soil Health Nexus: Strengthening Soil Health Programs for Educators and Farmers/Ranchers in the North Central Region</td>
<td>$90,000</td>
<td>Christina Curell Michigan State University Extension</td>
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<tr>
<td>ENC20-194</td>
<td>Improved sustainable agriculture outreach through behavior-change focused outreach toolkit</td>
<td>$86,391</td>
<td>Adam Reimer National Wildlife Federation</td>
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<tr>
<td>ENC19-182</td>
<td>Training Agricultural Professionals on Innovative Online Tools for Conservation Planning and Implementation</td>
<td>$68,058</td>
<td>Erica Rogers Michigan State University Extension</td>
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<tr>
<td>ENC18-169</td>
<td>Advancing Watershed Health Through Watershed Champions</td>
<td>$74,993</td>
<td>Adam Reimer National Wildlife Federation</td>
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<tr>
<td>ENC12-130</td>
<td>Enhancing the Integrated Pest Management Academy to Provide Professional Development Opportunities for Agricultural Educators that Increase Economically and Environmentally Sustainable Agriculture in Michigan</td>
<td>$72,484</td>
<td>Erin Lizotte MSU Extension, Suite 400</td>
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<td>ENC11-127</td>
<td>Ensuring Sustainable Agriculture in the Face of a Changing Climate</td>
<td>$74,286</td>
<td>Dr. Tapan Pathak University of Nebraska Julie Doll Michigan Agriculture Advancement</td>
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<td>ENC09-112</td>
<td>Hoophouse and Organic Farming for Ag Lenders</td>
<td>$25,329</td>
<td>Vicki Morrone Michigan State University Dr. Susan Smalley Michigan State University</td>
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<tr>
<td>ENC06-088</td>
<td>The New Agriculture Network: an organic farming forum for education and research</td>
<td>$75,000</td>
<td>Dr. Dale Mutch Michigan State University Extension</td>
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<tr>
<td>Project #</td>
<td>Project Title</td>
<td>SARE Support</td>
<td>Project Leaders</td>
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<td>ENC06-090</td>
<td>Enhancing the Capacity of Educators and Farm Leaders to work with Socially</td>
<td>$33,750</td>
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<td>Disadvantaged Latino Farmers</td>
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<td>ENC04-081</td>
<td>Community Food Issues: Sustainable Agricultural in Community Development</td>
<td>$75,000</td>
<td>Mike Hamm</td>
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<td>Community, Agriculture, Recreation &amp; Resource Stud</td>
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<td>ENC02-063</td>
<td>Professional Development - Holistic Management Training</td>
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<td>ENC01-060</td>
<td>Manure Nutrient Recycling and Environmental Assurance</td>
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<td>ENC01-061</td>
<td>Crop Ecology Education</td>
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<td>ENC99-044</td>
<td>Building Human Capital for Value Added Marketing</td>
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<td>ENC98-029</td>
<td>Michigan Field Crop Ecology: Training and Field Demonstrations</td>
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<td>ENC97-012.1</td>
<td>Self-Directed Participatory Agent Learning</td>
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<td>ENC97-024</td>
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<td>$23,966</td>
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<td>ENC96-011</td>
<td>Accessing Community-Based Information Sources for Improving Surface Water</td>
<td>$14,300</td>
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<td>ENC96-012</td>
<td>Participatory Learning Between Farms and Field Crop Area of Expertise Team</td>
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<td>ENC96-017</td>
<td>In-Service Training in Sustainable Agriculture and Agricultural Ecology for</td>
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<td>Kellogg Biological Station / Extension</td>
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<td>ENC95-003C</td>
<td>Developing Educational Materials and Schools for Sustainable and Profitable</td>
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<td>Grazing Systems</td>
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<td>ENC95-004</td>
<td>Local Sustainable Agriculture Team Building: A Sustainable Agriculture Training</td>
<td>$30,000</td>
<td>Russ LaRowe</td>
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**FARMER/RANCHER GRANTS**

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<tr>
<td>FNC23-1378</td>
<td>Predictive yields for small-scale staple crop production in North Central</td>
<td>$14,852</td>
<td>Eleanor Hucker</td>
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<td>States using common homestead equipment and minimal inputs.</td>
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<td>Great Lakes Staple Seeds</td>
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<td>FNC23-1382</td>
<td>Water Consortium: Researching and Edifying Water</td>
<td>$28,870</td>
<td>Jon Kent</td>
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<td>Catchment/Conservation Best Practices for Urban Farmers in Detroit</td>
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<td>FNC23-1392</td>
<td>Incorporating mushroom production into an urban, outdoor, No-till, Organic farm on existing productive space.</td>
<td>$3,878</td>
<td>Tristen Schultz</td>
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<td>FNC23-1397</td>
<td>Developing a Cover Cropping and No-Till Planting System for Small Scale Vegetable Farms Using the Two-Wheeled BCS Tractor</td>
<td>$17,965</td>
<td>Phillip Swartz</td>
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<tr>
<td>FNC22-1329</td>
<td>Promoting farm sustainability with complementary intercropping of English walnut, peaches, and sheep pastureland.</td>
<td>$7,539</td>
<td>Abby Johnson</td>
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<tr>
<td>FNC21-1261</td>
<td>Trialing Native, Herbaceous Perennials as Cut Flowers and Foliage for Sale to the Wholesale Floral Industry</td>
<td>$9,000</td>
<td>Alexandra Cacciari</td>
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<td>FNC21-1267</td>
<td>Evaluating the Effect of Two Pastured Poultry Rearing Systems of Pasture Health and Carcass Quality</td>
<td>$8,993</td>
<td>Kevin Donner</td>
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<td>FNC21-1291</td>
<td>Stacked Functionality Greenhouse Use for Mushroom Production: Utilizing space under transplant tables to diversify crops and income</td>
<td>$5,491</td>
<td>Jeremy Moghtader</td>
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<td>FNC21-1296</td>
<td>Fertilizing greenhouse basil with leaves</td>
<td>$3,200</td>
<td>Todd Quick</td>
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<td>FNC20-1233</td>
<td>Organic IPM for Swede Midge on Small-Scale, Diversified Vegetable Farms</td>
<td>$7,604</td>
<td>Sarah Longstreth</td>
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<td>FNC20-1255</td>
<td>The Organic Production of Traditional Crops by Mixteco Farmers</td>
<td>$9,000</td>
<td>Filiberto Villa-Gomez</td>
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<td>FNC19-1155</td>
<td>A Collaborative Research Project Evaluating Greensprouting as a Sustainable Pre-Planting Treatment for Seed Potato Minitubers Under Diverse Growing Conditions</td>
<td>$27,000</td>
<td>Melissa Boersema</td>
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<td>FNC19-1170</td>
<td>Testing aged manure for enhanced soil health and tree establishment in a pioneer chestnut orchard.</td>
<td>$8,649</td>
<td>Abby Johnson</td>
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<tr>
<td>FNC19-1173</td>
<td>Intercropping Systems For Small Scale Vegetable Production</td>
<td>$8,867</td>
<td>Lance Kraai</td>
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<td>FNC19-1194</td>
<td>Designing a Mobile Milking Parlor for a Multi-site Educational Goat Farm</td>
<td>$8,650</td>
<td>Leah Sienkowski</td>
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<td>FNC18-1113</td>
<td>A Proof of Concept Experiment Evaluating a Greensprouting Pre-Planting Treatment to Increase Seed Potato Yields and Develop Sustainable Practices within the Potato Industry</td>
<td>$7,500</td>
<td>Melissa Boersema</td>
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<td>FNC18-1118</td>
<td>Bees, Pleeze! - Adding an educational component to a wildflower field at a Midwest blueberry farm</td>
<td>$7,500</td>
<td>Frank Corrado</td>
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<td>FNC18-1119</td>
<td>Practical exclusion netting for reducing disease vectors in high density apple systems</td>
<td>$22,050</td>
<td>Jordan DeVries</td>
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<td>FNC17-1081</td>
<td>Proof of Concept – Sustainable Chestnut Production in Northeast Lower Michigan</td>
<td>$10,255</td>
<td>Abby Johnson</td>
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<td>FNC17-1090</td>
<td>A Comparative On-farm Study of Root Crop Production and Postharvest Systems for Scaling Up Diversified Vegetable Farms</td>
<td>$22,241</td>
<td>Dru Montri</td>
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<td>FNC17-1092</td>
<td>A Youtube Series; An Introduction to Sustainable Agriculture for Growing Ecological Eaters</td>
<td>$7,500</td>
<td>Therese Zimmerman</td>
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<td>FNC17-1074</td>
<td>Salad and Microgreens Automated Harvester Development</td>
<td>$7,500</td>
<td>David Coveyou</td>
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<td>FNC16-1028</td>
<td>Optimal Flock Size for Pasture Raised Layers</td>
<td>$7,394</td>
<td>Aaron Brower</td>
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<td>FNC16-1033</td>
<td>Open Source Automated Irrigation System for Small Farms, Urban Farms or Specialty Crops</td>
<td>$7,442</td>
<td>Christian Flickinger</td>
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<td>FNC16-1041</td>
<td>Evaluating On Farm Value Added Production in Utilizing Unmarketable Produce to Reduce Waste While Helping Small Farms Engage in Agritourism and Become More Profitable</td>
<td>$7,379</td>
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<td>FNC16-1050</td>
<td>Using Small Ruminants to Improve Forage Availability in Michigan Equine Pastures</td>
<td>$6,543</td>
<td>Bess Ohlgren-Miller</td>
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<td>FNC16-1057</td>
<td>Developing a System of Tissue Culture and Hydroponic Growing Medium for Hop Plant Production</td>
<td>$22,500</td>
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<td>FNC16-1060</td>
<td>Optimizing a Short Trellis System for Growing Cascade Hops in Michigan</td>
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<td>FNC15-1005</td>
<td>Improving apiary sustainability by using an overwintered nuc system for colony replacement and expansion instead of purchased package bees</td>
<td>$7,492</td>
<td>Meghan Milbrath</td>
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<td>FNC15-983</td>
<td>Exploring Shelter-Based Options for Over-wintering Honeybee Colonies in Northern Climates to Reduce Winter Loss</td>
<td>$10,752</td>
<td>Brian Bates</td>
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<td>FNC15-988</td>
<td>Farm-Generated Fertility; Vermicomposting Horse Manure and Vegetable Wastes</td>
<td>$7,301</td>
<td>Rachel Cross</td>
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<td>FNC14-943</td>
<td>Comparing Measurable Indicators of Soil Health under Two Different Forage Harvesting Methods Four times During the Growing Season</td>
<td>$6,462</td>
<td>Benjamin Bartlett</td>
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<td>FNC14-945</td>
<td>Demonstrating a Quick-Start Process to Help Small Blueberry Farmers Begin Transition To Organic Practices</td>
<td>$22,439</td>
<td>Frank Corrado</td>
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<td>FNC14-946</td>
<td>Chestnut Harvest Burr Management</td>
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<td>Carl DeKleine</td>
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<td>FNC14-951</td>
<td>Building Capacity through Collaboration and Eliminating Urban Food Deserts</td>
<td>$22,500</td>
<td>Shakara Tyler, MSU Center for Regional Food Systems, Cary Junior, SouthEast Michigan Producers Association (SEMPA)</td>
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<td>FNC14-969</td>
<td>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 Suzuki</td>
<td>$7,460</td>
<td>Judy Rant, Double R Blueberry Farm</td>
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<td>FNC14-976</td>
<td>Developing a Strategy For Utilizing Yard Waste Compost In A Corn And Soybean Rotation To Increase Soil Quality</td>
<td>$15,736</td>
<td>Ryan Schweihofner, Schweihofener Farms</td>
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<td>FNC14-980</td>
<td>An Integrated Organic Hops/Cover Crop/Pastured Sheep Production System To Address Agroecological Challenges And Diversify Farming Operations</td>
<td>$22,288</td>
<td>Amy Tennis, New Mission Organics LLC</td>
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<td>FNC13-921</td>
<td>A growth and feed comparison study with a focus on organically grown high methionine grains for broiler chickens</td>
<td>$7,360</td>
<td>Travis Meier</td>
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<td>FNC13-923</td>
<td>Renovation and Ecological Management of Neglected Apple Orchards in Southeast Michigan</td>
<td>$7,466</td>
<td>Trevor Newman, Roots to Fruits</td>
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<td>FNC13-933</td>
<td>Food Drying and Preservation in a Greenhouse Solar Dehydrator</td>
<td>$7,476</td>
<td>Patrick Scharinger, Pond Hill Farm, Kelly Doyle, Pond Hill Farm</td>
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<td>FNC13-941</td>
<td>Organic Potato Variety Trial in Michigan’s Upper Peninsula</td>
<td>$2,246</td>
<td>Michael Wixtrom, Wixtrom Natural Farms</td>
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<td>FNC12-849</td>
<td>Testing Combined Multiple Sustainable Production Methods in Asparagus for Symbiosis between Irrigation, Biofumigation, Advanced Cultivars, and Soil Amendments</td>
<td>$7,500</td>
<td>Benjamin Byl, Farmer</td>
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<td>FNC12-853</td>
<td>Exploring the Potential for Fava Beans (Vicia faba) as a Spring and Fall Cover Crop in Upper Midwest</td>
<td>$7,461</td>
<td>David Coveyou, COVEYOU FARMS</td>
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<td>FNC10-804</td>
<td>Michigan Organic Hops Production: utilizing current IPM models to investigate biocontrol effectiveness on hops pests and diseases in an organic production system</td>
<td>$5,994</td>
<td>Bonnie Steinman, Jeffrey Steinman, Hop Head Farms LLC</td>
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<td>FNC10-809</td>
<td>Growing, Processing, and Selling Omega-9 Canola Oil</td>
<td>$5,969</td>
<td>Dan Blackledge, B &amp; B Farms</td>
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<td>FNC10-826</td>
<td>Meeting the Growing Demand for Organic Hops: Low-Trellis Organic Hop Production in the Great Lakes Region</td>
<td>$17,720</td>
<td>Brian Tennis, New Mission Organics, Dr J Robert Sirrine, Michigan State University</td>
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| 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 |
| FNC08-713   | 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 |
| FNC08-720   | 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 |
| 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 |
| FNC06-603   | Identifying a Market for Woody Florals, and Other Specialty Cut Flowers in Michigan | $1,599  | Dixie Sandborn |
| 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 |
| 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 |
<p>| FNC05-556   | George Washington Carver's Garden: Farm Model and Mentoring Program for Seniors and Youth | $18,000 | Robert Crowder |</p>
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<td>FNC05-579</td>
<td>Developing a Community Sponsored Vegetable Operation in Rural Northeast Michigan</td>
<td>$6,000</td>
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<td>FNC05-580</td>
<td>Encouraging Managed Grazing in Michigan</td>
<td>$9,245</td>
<td>Howard Straub</td>
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<td>FNC05-589</td>
<td>Growing New CSA Farmers: Conference and Mini-School for Community Supported Agriculture</td>
<td>$14,000</td>
<td>Jim Sluyter</td>
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<td>FNC04-505</td>
<td>Comparing Alfalfa and Red Clover as Economical Dairy Cow Forage</td>
<td>$2,197</td>
<td>Mike Iho</td>
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<td>FNC04-509</td>
<td>Garber's Summer Farm Day Camp</td>
<td>$4,166</td>
<td>Cindy Garber</td>
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<td>FNC04-526</td>
<td>Free Range Egg Cooperative</td>
<td>$12,475</td>
<td>Sam Catey</td>
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<td>FNC04-530</td>
<td>A Comparison of the Profitability of Subsoil Heated and Unheated Hoophouse vs. Field Production of Cool-Climate Salad Crops in Central Lower Michigan</td>
<td>$3,033</td>
<td>Philip Throop</td>
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<td>FNC03-439</td>
<td>Pasture Improvement Trial: Enhancing Results By Analyzing Samples and Observing Cattle Grazing Preferences</td>
<td>$6,000</td>
<td>Mike Iho</td>
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<td>FNC03-440</td>
<td>Designing My Path into Sustainable Organic Farming</td>
<td>$5,448</td>
<td>Roy Monzo</td>
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<td>FNC03-462</td>
<td>Establishing Successful Organic Orchards</td>
<td>$6,000</td>
<td>Peter Ways</td>
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<td>FNC03-470</td>
<td>Sweeping the Orchard Floor as a Housekeeping Practice to Effectively Control the Plum Curculio Insect in Organic Orchards</td>
<td>$6,000</td>
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<td>FNC03-481</td>
<td>The Value of Mint: Preserving Historical Mint Fields with Windbreaks</td>
<td>$3,870</td>
<td>James Crosby</td>
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<td>FNC02-390</td>
<td>Encouraging More Bio-Diversity on My Farm By Providing A Safe Harbor for Nature's Best Mouse Trap: The Endangered Barn Owl</td>
<td>$1,822</td>
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<td>FNC02-391</td>
<td>Mill Race Center Farmers Market Community Supported Agriculture Outreach Program</td>
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<td>Beth Neff</td>
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<td>FNC02-401</td>
<td>Pasture Improvement Trial</td>
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<td>FNC02-418</td>
<td>Meeting the Needs of the Michigan Craft Brewing Industry: The Potential of Barley and Hops As Alternative Crops</td>
<td>$9,357</td>
<td>Wendell Banks</td>
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<td>FNC02-432</td>
<td>Small Scale/Youth Organic Gardening Project Continuation</td>
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<td>Leroy Ray, Jr.</td>
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<td>FNC01-340</td>
<td>Bats as Part of a Sustainable Pest Management Approach to Controlling Moth Pests in Commercial Apple Production</td>
<td>$4,799</td>
<td>James Koan</td>
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<td>FNC01-344</td>
<td>Incorporating Minority Farmers in the Sustainable Agricultural Movement</td>
<td>$5,000</td>
<td>Roger Outlaw</td>
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<td>FNC01-356</td>
<td>Organic Dairy</td>
<td>$11,700</td>
<td>Chuck Oliver Oliver Farm</td>
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<td>FNC01-369</td>
<td>Determination of Market and Profit Feasibility for an Organic Specialty Cut Flower Business in a Rural Northern Michigan Community</td>
<td>$5,000</td>
<td>Kim Smith-Potts</td>
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<td>FNC01-384</td>
<td>CSA Dairy</td>
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<td>Gene Allen</td>
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<td>FNC00-292</td>
<td>Multi-farm CSA: A Group Marketing Initiative for Rural Northern Michigan</td>
<td>$14,890</td>
<td>Rick Meisterheim</td>
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<td>FNC00-306</td>
<td>A Youth-operated Certified Compost Production and Distribution Scheme</td>
<td>$15,000</td>
<td>Leroy Ray, Jr., The Farm School Cooperative</td>
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<td>FNC00-307</td>
<td>Pathogen Reduction in Apple Cider Production</td>
<td>$4,450</td>
<td>Michael Beck Cider Production Manager</td>
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<td>FNC00-322</td>
<td>Cutting the Red Tape: Processing Pastured Poultry to Meet Market Demands</td>
<td>$5,125</td>
<td>Kay Jones</td>
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<td>FNC00-325</td>
<td>Building a Thermal-Blast Peeler to Prepare Chestnut for On-Farm, Value-Added Processing</td>
<td>$5,082</td>
<td>Corey Allen</td>
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<td>FNC99-250</td>
<td>Researching the Cost-effectiveness of Building a State-licensed, Mobile Poultry Processing Facility as a Regional Farmers' Group</td>
<td>$14,967</td>
<td>Rick Meisterheim</td>
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<td>FNC99-251</td>
<td>Creating a Farmer-youth Sustainable Production and Marketing Cooperative for a Group of Black Farmers in Van Buren County, Michigan</td>
<td>$15,000</td>
<td>LeRoi Ray Farm School Cooperative</td>
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<td>FNC99-260</td>
<td>Heirloom Apples</td>
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<td>FNC99-264</td>
<td>Organic Marketing Cooperative</td>
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<td>FNC99-268</td>
<td>Flexible Low-cost Poultry Processing</td>
<td>$4,180</td>
<td>Jack Knorek Oak Moon Farm</td>
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<td>FNC99-277</td>
<td>Utilizing Breeding Ewes' Grazing Abilities for Pasture and Crop Residue to Lengthen the Grazing Season</td>
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<td>Tamra Ashley</td>
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<td>FNC98-202</td>
<td>Expanding Partnerships between Southern Michigan Cash Crop Farmers and Northern Michigan Livestock Farmers</td>
<td>$5,000</td>
<td>Henry Miller</td>
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<td>FNC98-203</td>
<td>Southwestern Michigan Marketing Plan for Locally-Grown Produce</td>
<td>$10,000</td>
<td>Phillip Prillwitz</td>
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<td>FNC98-204</td>
<td>On-Farm Market for High Quality, Locally Grown Products and an Experience for School Children</td>
<td>$4,490</td>
<td>Pamela Bosserd</td>
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<td>FNC98-213</td>
<td>You-Pick for the Handicapped</td>
<td>$5,000</td>
<td>Thomas Robinson&lt;br&gt;S&amp;S Farm Market and Greenhouse</td>
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<td>FNC98-236</td>
<td>Cover Crops’ Influence on Soil Quality in No-Till Corn/Soybean Rotations</td>
<td>$5,000</td>
<td>Gary Manley</td>
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<td>Utilizing Alternative Methods for Silage Harvest and Storage</td>
<td>$5,000</td>
<td>David McCartney</td>
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<td>FNC97-166</td>
<td>Innovative Farmers Seeking Lowest Nitrogen Rates for Corn on Sandy Soils to Protect Ground Water</td>
<td>$4,021</td>
<td>Eric Hiscock</td>
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<td>FNC97-167</td>
<td>Innovative Farmers Seeking Sustainable Solutions through On-farm Demonstrations</td>
<td>$4,750</td>
<td>Kevin Vandy-Bogurt</td>
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<td>FNC97-168</td>
<td>Developing Partnerships between Southern Michigan Cash Crop Farmers and Northern Michigan Livestock Producers</td>
<td>$5,000</td>
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<td>FNC97-170</td>
<td>Integrated Row Tillage Project</td>
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<td>Swine Finishing in a Hoop Structure with Deep Bedding</td>
<td>$5,000</td>
<td>Gary Blonde</td>
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<td>FNC97-179</td>
<td>The Custom Grazing of Replacement Dairy Heifers on Fuego Fescue and Barenburg Ryegrass under a Management-intensive Grazing System</td>
<td>$3,518</td>
<td>Helene Paulik</td>
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<td>FNC97-183</td>
<td>Transition from Traditional Grain or Livestock Agriculture to On-farm Roadside Marketing of Produce</td>
<td>$5,000</td>
<td>Pamela Bosserd</td>
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<td>FNC97-186</td>
<td>Farmer Networking to Direct Precision Ag Technologies Toward Sustainability</td>
<td>$4,950</td>
<td>Tom Waller</td>
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<td>FNC97-187</td>
<td>Marketing On-farm Composted Manure</td>
<td>$9,700</td>
<td>Joe Slater</td>
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<td>FNC97-189</td>
<td>The Economics of Seed Saving on Three Biological Farms in Western Michigan</td>
<td>$4,676</td>
<td>Paul Keiser</td>
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<td>FNC97-199</td>
<td>Processing and Marketing Milk Produced on our Small Dairy Farm</td>
<td>$5,000</td>
<td>George Shetler</td>
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<td>FNC96-139</td>
<td>Permaculture Greenhouse System: Integrating Greenhouse and Poultry Production</td>
<td>$5,000</td>
<td>Rick Meisterheim</td>
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<td>FNC96-152</td>
<td>Extending the Vegetable Growing Season in Northern Michigan with Polyhouses</td>
<td>$2,696</td>
<td>James Chadwick</td>
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<td>FNC96-155</td>
<td>Using Forage and Grazing Systems as an Alternative to Row Crops on Michigan Muck Soils</td>
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<td>FNC95-109</td>
<td>The Development of an On-farm Learning Center</td>
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<td>FNC95-113</td>
<td>Nitrogen Management on Sandy Soils for Environmentally and Economically Sustainable Corn Production</td>
<td>$5,000</td>
<td>Edmond Groholski</td>
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<td>FNC95-122</td>
<td>Stockpiling Pasture by Interseeding Annual Rye into Existing Pastures</td>
<td>$640</td>
<td>Chuck Cornillie</td>
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<td>FNC95-125</td>
<td>Improving Ground and Surface Water Quality by Reducing Commrical Fertilizer Applications to Land Receiving Livestock Manures</td>
<td>$4,644</td>
<td>Calvin Dyke</td>
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<td>FNC94-061</td>
<td>Livestock Watering Systems</td>
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<td>Implementing Sustainable Agricultural Practices to Attain Organic Certification</td>
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<td>FNC94-066</td>
<td>Pasture Renovation and Reseeding</td>
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<td>FNC94-077</td>
<td>Composting Swine Carcasses</td>
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<td>FNC94-083A</td>
<td>On-Farm Composting of Livestock Manure</td>
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<td>FNC94-083B</td>
<td>On-Farm Composting of Livestock Manure</td>
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<td>FNC94-086</td>
<td>Developing a Stewardship Plan for Water Quality</td>
<td>$4,538</td>
<td>Tom Guthrie</td>
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<td>FNC93-035</td>
<td>Intensive Rotational Grazing for Sheep</td>
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<td>FNC93-037</td>
<td>Manure Composting in Dairy Operations</td>
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<td>George Shetler</td>
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<td>FNC93-043</td>
<td>Evaluating Forages in Rotational Grazing System for Dairy</td>
<td>$4,688</td>
<td>Dale Kellenberger</td>
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<td>FNC93-049</td>
<td>Evaluating Liquid Manure as Nutrient Source in a Commercial Orchard</td>
<td>$4,551</td>
<td>John Muma</td>
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<td>FNC93-050</td>
<td>Composting Rural and Urban Waste</td>
<td>$4,950</td>
<td>Marlin Goebel</td>
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<td>FNC93-056</td>
<td>Bio-Control of Colorado Potato Beetle Utilizing Poultry</td>
<td>$2,044</td>
<td>Quinn Cumberworth</td>
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| GNC23-368  | Can low-cost NIR reflectometers predict Potential Mineralizable Nitrogen in organic farms? | $14,999      | Dr. Sieglinde Snapp  
Michigan State University  
Rabin KC  
Michigan State University |
| GNC23-369  | Develop grower-appropriate plant residue management methods to reduce asparagus beetle damage | $14,988      | Zsofia Szendrei  
Michigan State University  
Laura Marmolejo  
MSU |
| GNC22-340  | Exploring the Effects of Prairie Restoration Management on Soil Microbial Carbon Storage | $14,997      | Dr. Kathryn Docherty  
Western Michigan University  
Ellen Badger Hanson  
Western Michigan University |
| GNC21-324  | Addressing the Weed and Soil Management Trade-offs in Vegetables Through Integrated Cultural and Mechanical Strategies | $14,984      | Daniel Brainard  
Michigan State University  
Noelle Connors  
Michigan State University |
| GNC21-325  | Characterization of Melissococcus plutonius strains in Michigan honey bees | $14,850      | Meghan Milbrath  
Michigan State University  
Peter Fowler, DVM  
Michigan State University |
| GNC21-326  | Effect of Electrical Weed Control on Soil Health and Carrot Crop | $15,000      | Dr. Sushila Chaudhari  
Michigan State University  
Chris Galbraith  
Michigan State University Extension & Ohio State University |
| GNC21-327  | Improving sustainability of North Central Region peach production through novel training systems and optimization of branch angle. | $14,883      | Dr. Courtney Hollender  
Michigan State University  
Andrea Kohler  
Michigan State University |
| GNC21-328  | Enhancing the polyphenolic content and demand of Upper Midwestern, locally produced beef | $15,000      | Jenifer Fenton  
Michigan State University  
Dr. Todd Lydic  
Michigan State University  
Dr. Ilce Medina-Meza  
Michigan State University  
Dr. Jason Rowntree  
Michigan State University  
Lucas Krusinski  
Michigan State University |
| GNC21-336  | Conserving pollinators on farms with prairie strips | $12,234      | Sarah Evans  
Michigan State University W.K. Kellogg Biological Station  
Dr. Lisa Schulte Moore  
Iowa State University  
Corinn Rutkoski  
Michigan State University |
| GNC21-337  | Consumer demand for cannabis-infused beverages and its impact on the economic sustainability of local farms and craft beverage producers | $14,431      | Vincenzina Caputo  
Michigan State University  
Aaron Staples  
Michigan State University |
| GNC20-312  | Exploring how farmers’ perceptions of soil health affect their management decisions | $12,710      | Sarah Evans  
Michigan State University W.K. Kellogg Biological Station  
Tayler Ulbrich  
Michigan State University  
Tayler Ulbrich  
Michigan State University |
<table>
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<th>Project ID</th>
<th>Title</th>
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<th>Principal Investigator(s)</th>
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| 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 | John Vandermeer  
|             |                                                                                         |       | University of Michigan  
|             |                                                                                         |       | Nicholas Medina  
|             |                                                                                         |       | University of Michigan |
| GNC19-283   | Improving N management in processing carrots using drone-based remote sensing for more sustainable production | $14,563 | Dr. Zachary Hayden  
|             |                                                                                         |       | Horticulture, Michigan State University  
|             |                                                                                         |       | Michael Metiva  
|             |                                                                                         |       | Michigan State University |
| 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 |
| GNC18-255   | Cover Crop Mixtures for Nitrogen Use Efficiency on Grain/Arms in Southern Michigan        | $11,970 | Dr. Jennifer Blesch  
|             |                                                                                         |       | University of Michigan  
|             |                                                                                         |       | Alison Bressler  
|             |                                                                                         |       | University of Michigan - Ann Arbor, MI |
| 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 | Dr. Zachary Hayden  
|             |                                                                                         |       | Horticulture, Michigan State University  
|             |                                                                                         |       | Alyssa Tarrant  
|             |                                                                                         |       | Michigan State University |
| 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 |
| GNC16-225   | Luring Generalist Predators from Field Borders to Control Crop Pests                      | $11,728 | Zsofia Szendrei  
|             |                                                                                         |       | Michigan State University  
|             |                                                                                         |       | Dr. Adam Ingrao  
|             |                                                                                         |       | Michigan State University Extension |
| 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 |
Integrating Flowering Windbreaks for Insect Management in Cucumbers

Zsofia Szendrei
Michigan State University
Nicole Quinn
Michigan State University

$9,989

Biodiversity Effects on Soil carbon Gain in Annual and Perennial Cropping Systems

Dr.Phil Robertson
Michigan State University/ Kellogg Biological Station
Dr.Christine Sprunger
Michigan State University

$6,382

Quantification of Nitrogen Lost to Greenhouse Gas Emissions in Cover Crop Systems

Dr.Dale Mutch
Michigan State University Extension
Victoria Ackroyd
Michigan State University

$9,924

Understanding the Economics of Hoophouse Crops in Northern Climates

Bridget Behe
Michigan State University
Laura Haselhuhn
Michigan State University

$9,999

Development of an Integrative Two-tiered Systemic Approach to Manage Bacterial Canker of Sweet Cherry by Targeting Critical Environmental Infectious Periods

Gregory Lang
Michigan State University
Tiffany Lillrose
Michigan State University

$9,983

Effects of Pest Management and Conservation Plantings of Bee Communities in Highbush Blueberry

Dr.Rufus Isaacs
Dr. Emily May
Michigan State University

$9,962

Use of Water Mist to Protect Tree Fruit from Spring Frost Damage

James Flore
Jeffrey Andresen
Ishara Rijal
Michigan State University

$9,865

Improving Resource Use Efficiency Through Strip Tillage, Cover Cropping, and Deep Fertilizer Placement

Daniel Brainard
Michigan State University
Dr.Sieglinde Snapp
University of Kentucky
Dr.Erin Haramoto

$9,915

Nitrogen Mineralization from Weed Residues

Dr.Kurt Steinke
Laura Bast
Michigan State University

$9,544

Artisanal Agrifood Processing and Food Safety Regulation: Responding to the Concerns of Small Processors and Regulators in Michigan

Dr.Jim Bingen
Jennifer Buckley
Michigan State University

$9,903

Combining Alternative Cover Crop Strips, Living Mulches and Strip Tillage for Effective Weed and Nutrient Management in Organic Sweet Corn Production

Daniel Brainard
Carolyn Lowry
Michigan State University

$9,960

Low Tunnel Strategies for Microclimate Modification and Early Vegetable Production

Mathieu Ngouajio
Rebekah Struck Faivor
Michigan State University

$9,591

A novel approach for optimizing the benefits of cereal-legume cover crop mixtures in vegetable cropping systems

Daniel Brainard
Mathieu Ngouajio
Dr.Zachary Hayden
Horticulture, Michigan State University

$9,983

Evaluation of Plant Composition and Strip Size on the Effectiveness of Native Plant Conservation Strips for Sustainable Enhancement of Beneficial Insect Communities

Dr.Rufus Isaacs
Brett Blaauw
Michigan State University

$9,910
GNC08-095 Treatment of Agricultural Runoff Using Filter Strip $10,000 Dr. Steve Safferman Michigan State University Dr. Rebecca Larson University of Wisconsin-Madison

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 Dr. Brook Wilke Michigan State University, Kellogg Biological Station

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 Supressiveness 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 Sirrine Department of Environmental Studies
ON FARM RESEARCH/PARTNERSHIP GRANTS

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<tr>
<td>ONC23-121</td>
<td>The Seed to Kitchen Collaborative: Identifying Improved Vegetable Varieties for Organic Direct-Market Growers</td>
<td>$49,391</td>
<td>Dr. James DeDecker&lt;br&gt;Mission State University AgBioResearch and Extension</td>
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<td>ONC23-128</td>
<td>Income through conservation: Training farmers to produce plant materials for specialist butterflies.</td>
<td>$48,416</td>
<td>Meghan Milbrath&lt;br&gt;Mission State University</td>
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<td>ONC21-085</td>
<td>Michigan Sustainable Farm Mentors</td>
<td>$39,999</td>
<td>Katie Brandt&lt;br&gt;Mission State University</td>
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<td>ONC18-042</td>
<td>Developing Profitable Double-Crop Systems after Winter Barley</td>
<td>$26,730</td>
<td>Dr. Maninderpal Singh&lt;br&gt;Mission State University</td>
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<td>ONC18-051</td>
<td>Evaluating agritourism strategies for small scale sustainable agriculture operations</td>
<td>$29,620</td>
<td>Garrett Ziegler&lt;br&gt;Mission State University Extension</td>
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<td>ONC17-025</td>
<td>Cultivating partnerships: Building Farm-research Networks for Improved Physical Weed Control</td>
<td>$25,595</td>
<td>Daniel Brainard&lt;br&gt;Mission State University</td>
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<td>ONC15-001</td>
<td>Northeast Michigan Aerial Cover Crop Seeding Demonstrations</td>
<td>$29,810</td>
<td>Dr. James DeDecker&lt;br&gt;Mission State University AgBioResearch and Extension</td>
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YOUTH EDUCATOR GRANTS

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<tr>
<td>YENC23-198</td>
<td>That Farmer Looks Like Me: Encouraging Urban Youth to Engage in Farming</td>
<td>$5,984</td>
<td>Lance Kraai&lt;br&gt;New City Neighbors</td>
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<tr>
<td>YENC23-201</td>
<td>Teaching Young People About Caring for the Land, Community and Themselves through Sustainable Farming and Gardening Practices</td>
<td>$6,000</td>
<td>Willie Patmon&lt;br&gt;WJP Farms&lt;br&gt;Anita Singh&lt;br&gt;Sarnath Gardens &amp; National Wildlife Federation</td>
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<td>YENC23-204</td>
<td>After School Farm Club at DPSCD's Drew Farm</td>
<td>$6,000</td>
<td>Laura Sajdak&lt;br&gt;Detroit Public Schools Office of School Nutrition Farm &amp; Garden Program</td>
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<td>YENC22-179</td>
<td>RIVERRVIEW COMMUNITY SCHOOL DISTRICT SUSTAINABLE URBAN AGRICULTURE PROGRAM</td>
<td>$5,190</td>
<td>Marci Heulitt&lt;br&gt;Riverview Community School District</td>
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<td>YENC22-180</td>
<td>Bridgman Elementary School Garden Club Leader in Training Program</td>
<td>$5,488</td>
<td>Gail Holman</td>
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<td>YENC22-186</td>
<td>Wholesale Market Experience with Herbal Teas</td>
<td>$5,815</td>
<td>Kelsi Smith</td>
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<td>YENC22-187</td>
<td>Community Food System Summer Apprenticeship</td>
<td>$6,000</td>
<td>Emily Staugaitis</td>
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<td>YENC20-150</td>
<td>Educating Youth in Sustainable Farming and Value Added Production.</td>
<td>$3,981</td>
<td>Lance Kraai</td>
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<td>YENC18-120</td>
<td>Avalon Housing's Youth Leadership Program</td>
<td>$2,000</td>
<td>Ashley Blake</td>
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<td>YENC18-126</td>
<td>TechGYRLS Sustainable Agriculture Overnight Camp</td>
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<td>Dr. Grace Lubwama</td>
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<td>YENC18-127</td>
<td>Urban Farming as a Sustainable Business</td>
<td>$2,000</td>
<td>Tommy McDoniel</td>
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<td>YENC18-128</td>
<td>Flowers for Food and Thought</td>
<td>$2,000</td>
<td>Joan Nelson</td>
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<td>YENC18-130</td>
<td>Grow Healthy, Lansing! Nutrition Education in the Edible Schoolyard</td>
<td>$2,000</td>
<td>Stephanie Onderchanin</td>
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<td>YENC17-111</td>
<td>New City Farm Youth Gardening &amp; Cooking Club Education Project</td>
<td>$2,000</td>
<td>Alaina Dobkowski</td>
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<td>YENC17-118</td>
<td>Pondering Pollinators</td>
<td>$2,000</td>
<td>Josh Wald-Kerr</td>
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<td>YENC16-096</td>
<td>An Agricultural Field Trip for Elementary Students from Prairievie...</td>
<td>$1,996</td>
<td>Katie Bridges</td>
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<tr>
<td>YENC16-103</td>
<td>Youth Service Corps: Addressing Food Access through Sustainable Food Systems Study &amp; Community Service Projects</td>
<td>$2,000</td>
<td>Josh Wald-Kerr</td>
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<td>YENC16-104</td>
<td>Farmers Leading Youth (FLY) BeeKeeping</td>
<td>$2,000</td>
<td>Jessica Patton</td>
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<td>YENC15-086</td>
<td>Eastside Youth Service Corps: Expanding the Edible Hunter Park, Increasing Food Security, Promoting Sustainable Agriculture and Fostering Food Entrepreneurism</td>
<td>$2,000</td>
<td>Rita O'Brien</td>
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<td>YENC14-074</td>
<td>Youth Service Corps Fruit Tree Project: Sustainable Approach to Neighborhood Fruit Access</td>
<td>$2,000</td>
<td>Rita O'Brien</td>
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<td>YENC13-063</td>
<td>Green Tops Sustainable Agriculture Boot Camp</td>
<td>$2,000</td>
<td>Elizabeth Longley</td>
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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

YENC10-028  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

YENC10-036  Edible Avalon Summer Youth Program  $1,807  Kristin Kaul  Edible Avalon

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

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<td>YNC09-036</td>
<td>Student Report on the Northern Michigan Small Farms Conference</td>
<td>$360</td>
<td>Megan Brown</td>
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<tr>
<td>YNC08-013</td>
<td>Not Just Chicken</td>
<td>$373</td>
<td>Marley Sukenik</td>
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<tr>
<td>YNC08-015</td>
<td>Custom Raised Broilers</td>
<td>$400</td>
<td>Jared Reimann</td>
</tr>
<tr>
<td>YNC08-024</td>
<td>Grass-Fed Lamb Agriscience Project</td>
<td>$400</td>
<td>Alexandria Schut</td>
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<td>YNC08-027</td>
<td>Nature's Eco-Wicks</td>
<td>$392</td>
<td>Laquetta Hogan</td>
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<tr>
<td>YNC08-029</td>
<td>Sustainable Backyard Egg Production from a 9 Year Old’s Perspective</td>
<td>$394</td>
<td>AnnaLiesa Durling</td>
</tr>
</tbody>
</table>

**Total funding from the USDA SARE program to Michigan**
$9,954,366

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