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 $311 million to more than 7,449 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, grantees-produced information products and other educational materials.

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

Illinois

Project Highlight: Utilizing Precision Application of Cover Crops to Maximize Benefits to Corn

Over the 20 years that Ralph Upton has planted cover crops on his Illinois farm, he has built up the health of his soil and reduced his need for fertilizers and pesticides on his corn and soybean crops. However, he knows they can still do more. Allowing the cover crop to develop biomass and roots right up to spring planting would yield even more benefits, but for Upton, who practices no-till, planting corn into the heavy green residue can be difficult.

So, he used a SARE grant to experiment with building a precision, multi-cover crop species seeder and partnered with local educators and researchers to test it. The advantage of such a precision seeder would be the ability to plant a mix of cover crop species at one time, but to place some species within corn rows and others between rows. The species that develop heavier residue would go between rows, hopefully making it easier to plant again the following year.

Upton found that precision-planted cover crops are effective and maintained his corn yields. His work prompted interest among Illinois farmers and crop advisors. This precision-planting system could allow for a more flexible transition from a conventional tillage system to a no-till cover crop system, according to Upton.

For more information on this project, see sare.org/projects, and search for project number FNC15-1018.

SARE in Illinois

northcentral.sare.org/state-programs/illinois

$3,623,283 in total funding

147 grant projects

(since 1988)

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

Total awards: 147 grants
- 66 Farmer/Rancher
- 22 Graduate Student
- 9 On Farm Research/Partnership
- 10 Professional Development Program
- 20 Research and Education
- 5 Youth
- 15 Youth Educator

Total funding: $3,623,283
- $482,538 Farmer/Rancher
- $239,884 Graduate Student
- $309,159 On Farm Research/Partnership
- $533,599 Professional Development Program
- $2,020,218 Research and Education
- $2,000 Youth
- $35,885 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/illinois

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/illinois to learn more.

Bruce Branham
University of Illinois
(217) 333-7848
bbranham@illinois.edu

Douglas Gucker
University of Illinois Extension
(217) 877-6042
dgucker@illinois.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.
Illinois has been awarded $3,623,283 grants to support 145 projects, including but not limited to, 18 research and/or education projects, 10 professional development projects and 66 producer-led projects. Illinois 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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</thead>
<tbody>
<tr>
<td>LNC20-432</td>
<td>Precision Winter Cereal Rye Cover Cropping for Improving Farm Profitability and Environmental Stewardship</td>
<td>$249,871</td>
<td>Dr. Shalamar Armstrong, Purdue University</td>
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<td>LNC19-429</td>
<td>Establishing a Network of Agroforestry Research &amp; Demonstration Farms</td>
<td>$199,893</td>
<td>Dr. Kevin Wolz, PhD, Savanna Institute</td>
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<td>LNC18-407</td>
<td>Midwestern Initiative to Discern and Overcome Identity-Based Barriers to Adopting Regenerative Practices in Commercial Grain Farming</td>
<td>$197,909</td>
<td>Cassidy Dellorto-Blackwell, The Land Connection</td>
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<td>LNC10-321</td>
<td>Suppression of Soybean Diseases Through the Use of Cover Crops</td>
<td>$174,823</td>
<td>Dr. Darin Eastburn, University of Illinois</td>
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<tr>
<td>LNC10-327</td>
<td>Translating Sustainable Agriculture to the Backyard Garden in Metropolitan Chicago</td>
<td>$86,963</td>
<td>Anya Maziak, Chicago Botanic Garden</td>
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<tr>
<td>LNC08-298</td>
<td>Alternative Oilseeds for Sustainable, High-Quality Biodiesel</td>
<td>$127,635</td>
<td>Frederick Iutzi, Western Illinois University</td>
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<td>LNC07-282</td>
<td>Best Sustainable Management Practices For Perennial Weeds</td>
<td>$144,003</td>
<td>Dan Anderson, University of Illinois John Masiunas, University of Illinois</td>
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<tr>
<td>LNC03-228</td>
<td>New Strategies for Management of Vegetable Diseases in Organic and Traditional Farms</td>
<td>$99,289</td>
<td>Mohammad Babadoost, University of Illinois</td>
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<tr>
<td>LNC02-205</td>
<td>Soil Testing and Information for Organic Transition</td>
<td>$49,042</td>
<td>Michelle Wander, University of Illinois</td>
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<tr>
<td>LNC01-190</td>
<td>The Use of Farmer Directed Teams to Improve Milk Quality on Family Dairy Farms</td>
<td>$98,052</td>
<td>Pamela Ruegg, University of Wisconsin Madison</td>
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<tr>
<td>LNC00-169</td>
<td>Assisting Farmers in Crisis to Adopt Sustainable Marketing Alternatives</td>
<td>$98,590</td>
<td>John Masiunas, University of Illinois</td>
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<tr>
<td>LNC00-174</td>
<td>Sustaining Farms and Biodiversity through Woodland Cultivation of High-Value Crops</td>
<td>$49,859</td>
<td>Colin Donohue, Rural Action</td>
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</table>
Microbial Indices of Soil Quality
$54,000
Gerald Sims
University of Illinois

On-Farm Adaptation of Integrated Crop and Livestock Systems in Illinois
$92,994
Robert Hornbaker
Dept of Agricultural and Consumer Economics, University of Illinois

Regional Workshop for Educators on the use of Cover Crops in Sustainable Farming Systems
$10,000
Nick Robertson
Illinois Sustainable Ag Society

Social and Cultural Factors Affecting Sustainable Farming Systems and the Barriers to Adoption
$72,018
Sonya Salamon
University of Illinois

Participatory Research and Education Network for Sustainable Agriculture in Illinois
$110,500
Robert Hornbaker
Dept of Agricultural and Consumer Economics, University of Illinois

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

<table>
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<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| ENC20-188 | Intensivo Biodinamico: Piloting Spanish Language Training in Biodynamics | $19,288 | Thea Carlson
Biodynamic Association |

| ENC20-191 | Online Agroforestry Course for Professionals | $79,620 | Keefe Keeley
Savanna Institute |

| ENC20-192 | Innovating Education of Agricultural Professionals on Organic Field Crop Production with a Flipped Classroom Approach | $89,731 | Mallory Krieger
Organic Trade Association |

| ENC15-143 | From the Classroom to the Field: Advanced Soil Health Training for Illinois Ag Service Providers | $74,602 | Jennifer Filipiak
Driftless Area Land Conservancy |

| ENC13-138 | Developing and Disseminating Legal Issues Curricula to Educators Who Assist Sustainable Farmers | $70,714 | Cara Cummings |

| ENC10-117 | Expanding Large-Scale Manure Composting Expertise in Illinois and Wisconsin | $6,588 | Randy Fonner
Univ of IL Extension
Ellen Phillips
University of Illinois Extension
Dr.Ted Funk
University of Illinois at Urbana-Champaign |

| ENC04-082 | Professional Development Project: Working with Latino Agricultural Communities | $66,586 | Stu Jacobson
University of Illinois at Springfield |

| ENC03-072 | Professional Development Program in Apiculture and Pollination | $81,412 | Stu Jacobson
University of Illinois at Springfield |

| ENC00-049 | Sustainable Approaches to Aquaculture Production and Marketing | $12,750 | John Glover
USDA |

| ENC98-034 | Introduction to Management Intensive Grazing Systems Workshops and Resource Manual for Educators | $32,308 | Deborah Cavanaugh-Grant
University of Illinois at Urbana-Champaign,
Agroecology/Sustainable Agriculture Program |

FARMER/RANCHER GRANTS

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USDA |

| ENC98-034 | Introduction to Management Intensive Grazing Systems Workshops and Resource Manual for Educators | $32,308 | Deborah Cavanaugh-Grant
University of Illinois at Urbana-Champaign,
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<tr>
<th>Grant Number</th>
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<th>Applicant</th>
<th>Applicant Details</th>
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<tr>
<td>FNC20-1209</td>
<td>Simultaneous Interseeding of Corn and Cover Crops at Various Row Spacings</td>
<td>$18,000</td>
<td>Andrew Bowman</td>
<td>Bowman Farm</td>
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<tr>
<td>FNC20-1219</td>
<td>Exploring Flavor and Yield of Heirloom Corn Varieties for Spirit Production</td>
<td>$17,530</td>
<td>Will Glazik</td>
<td>IDEA Farm Network</td>
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<tr>
<td>FNC20-1237</td>
<td>Impact of Commercial Fungal Inoculant on Tomato Yield and Disease Resistance in Deep Composted Raised Beds</td>
<td>$8,907</td>
<td>Shannon McBride</td>
<td>Liberty Prairie Foundation</td>
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<tr>
<td>FNC19-1199</td>
<td>The cultivation of wild yeast strains to add value to farmhouse fermentation</td>
<td>$26,370</td>
<td>Maggie Wachter</td>
<td>Second Nature Honey</td>
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<tr>
<td>FNC19-1200</td>
<td>Enhancing berry farm profitability through perennial alley crops</td>
<td>$8,940</td>
<td>Dr. Kevin Wolz, PhD</td>
<td>Midwest Agroforestry Solutions</td>
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<td>FNC19-1178</td>
<td>Establishing a perennial living mulch for weed control in sweet corn</td>
<td>$8,088</td>
<td>Charles Martin</td>
<td>Willow Creek Farm</td>
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<td>FNC19-1182</td>
<td>Moving Beyond Anecdotes: Making Data Driven Decisions to Adapt to Climate Change</td>
<td>$7,859</td>
<td>Jeff Miller</td>
<td>Prairie Wind Family Farm</td>
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<tr>
<td>FNC18-1137</td>
<td>Finding the right mix of Cover Crops in a Sweetcorn and Snap Bean operation in the Midwest</td>
<td>$7,500</td>
<td>Mark ORourke</td>
<td>O’Rourke Family Gardens</td>
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<tr>
<td>FNC18-1141</td>
<td>Soil Remediation Techniques in Urban Agriculture</td>
<td>$14,975</td>
<td>Casey Sabatka</td>
<td>Dirty Boots Flowers</td>
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<tr>
<td>FNC17-1101</td>
<td>Increasing the Use of Farm Fresh Food in Institutional Settings by Educating Chefs, Youth, and Local Farmers through Demonstrations, Workshops, and Visual References</td>
<td>$7,448</td>
<td>Ann Swanson</td>
<td>Hendrick House</td>
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<td>FNC17-1106</td>
<td>Creating a Resource on How to Build an Urban Farm in Chicago with a Modest Budget</td>
<td>$7,500</td>
<td>Catherine Williams</td>
<td>Chicago Patchwork Farms</td>
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<td>FNC15-1018</td>
<td>Utilizing precision application of cover crops to minimize planting challenges while maximizing benefits to corn</td>
<td>$7,289</td>
<td>Ralph Upton, Jr.</td>
<td>Upton farms</td>
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<td>FNC15-1019</td>
<td>Developing a method to capture and authenticate single varietal honey on diverse landscapes</td>
<td>$11,734</td>
<td>Maggie Wachter</td>
<td>Second Nature Honey</td>
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<tr>
<td>FNC13-905</td>
<td>Growing hydroponic fodder for dairy goats on a limited acreage farm</td>
<td>$7,500</td>
<td>Linda DuShane</td>
<td>Heart’s Quest Dairy Goats</td>
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<td>FNC13-918</td>
<td>Marcoot Jersey Creamery Comprehensive Food Safety Program</td>
<td>$7,495</td>
<td>Beth Marcoot</td>
<td>Marcoot Jersey Creamery</td>
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<td>FNC13-920</td>
<td>Establishing a Year-round Urban Greenhouse Herb Garden</td>
<td>$7,500</td>
<td>Emmanuel Pratt</td>
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<tr>
<td>FNC13-930</td>
<td>Developing Vertically Integrated Edible Bio-systems in a USDA Hardiness Zone 5 Environment</td>
<td>$6,923</td>
<td>Dave Bishop</td>
<td>PrairiErth Farm</td>
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<td>FNC10-822</td>
<td>Sustainable beekeeping: increasing production and utilization of northern-adapted, disease and mite resistant honey bee queens</td>
<td>$15,431</td>
<td>stewart jacobson</td>
<td>Illinois Queen Initiative</td>
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<td>FNC10-835</td>
<td>Four-Season Vegetable Production Utilizing High Tunnels, Floating Row Cover, and a Compost Heat Exchanger.</td>
<td>$5,994</td>
<td>Phillip Swartz</td>
<td>Moraine View Farm</td>
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<tr>
<td>FNC09-773</td>
<td>Adding Value to Our Seventh Generation Dairy Farm by Turning Our Milk into Farmstead and Artisan Cheeses</td>
<td>$6,000</td>
<td>Amy Marcoot</td>
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<tr>
<td>FNC09-779</td>
<td>Bringing the store to the customer. Increasing the farm’s direct marketing capability and increasing retail income from meats, eggs, and produce with a mobile store</td>
<td>$5,980</td>
<td>Dave Bishop</td>
<td>PrairiErth Farm</td>
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<td>FNC09-790</td>
<td>The mentoring of young adults with non-farm background in the production and local marketing of organic vegetable crops</td>
<td>$2,956</td>
<td>Clarence Burton</td>
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<tr>
<td>FNC08-705</td>
<td>Increasing the production and use of disease and mite resistant queens adapted to northern conditions</td>
<td>$11,478</td>
<td>stewart jacobson</td>
<td>Illinois Queen Initiative</td>
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<td>FNC08-715</td>
<td>Roller-Crimper Construction and No-Till Organic Weed Control Trials</td>
<td>$12,730</td>
<td>Jacquelyn DeBatista</td>
<td>Irish Grove Farms, Inc.</td>
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<td>FNC07-685</td>
<td>Establishment of an Organic, Sustainable Small-Scale Farm Producing Livestock (Goats/Chickens) and Vegetables for Niche Markets in Chicago</td>
<td>$5,991</td>
<td>Godwin Akpan</td>
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<td>FNC07-671</td>
<td>Marketing of Small Amounts of Organic Grains through Alternative Broiler Feeds and Direct to Consumer Sales</td>
<td>$3,226</td>
<td>Lisa Haynes</td>
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<tr>
<td>FNC06-606</td>
<td>Water Conservation and Grey Water Recycling at Three Rivers Community Farm</td>
<td>$5,000</td>
<td>Amy Cloud</td>
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<td>FNC06-611</td>
<td>Bringing the Retail Dollar Home-Increasing Profitability of Small Scale Meat Production Through Direct Marketing</td>
<td>$5,938</td>
<td>Beth Osmund</td>
<td>Cedar Valley Sustainable Farm</td>
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<td>FNC06-632</td>
<td>To Be Able to Introduce Healthy and Economical Agricultural to a New and Lost Generation</td>
<td>$16,830</td>
<td>Reginald Stewart</td>
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<td>FNC06-641</td>
<td>Northern Production of Disease and Mite Resistant Queen Honey Bees</td>
<td>$4,409</td>
<td>stewart jacobson</td>
<td>Illinois Queen Initiative</td>
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<td>FNC05-565</td>
<td>Okra [Abelmoschus esculentus] an Oilseed for Stressful Conditions of the Midwest</td>
<td>$5,850</td>
<td>Michael Vincent</td>
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<td>FNC04-536</td>
<td>Use of Worm Casting Extract in Ag Production</td>
<td>$4,048</td>
<td>Don Spiker</td>
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<td>FNC04-540</td>
<td>Integrated Cultural Production Methods for Maximum Okra Seed Yields</td>
<td>$4,933</td>
<td>Michael Vincent</td>
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<td>FNC04-497</td>
<td>Determination of an Economically Optimal Organic Control of Onion Maggots in Allium Crops</td>
<td>$1,405</td>
<td>Lisa Haynes</td>
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<td>FNC04-518</td>
<td>Resource Center City Farm</td>
<td>$5,950</td>
<td>Kristine Greiber</td>
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<tr>
<td>FNC04-520</td>
<td>Three Little Fishes</td>
<td>$5,998</td>
<td>Brenda Lyons</td>
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<td>FNC04-524</td>
<td>Conducting a Variety Trial to Find the Best Marketable Organic Tomato Product</td>
<td>$5,910</td>
<td>Louis Reuschel Ocean Farm</td>
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<td>FNC04-533</td>
<td>Growing Fish &amp; Plants in an Aquaponic System</td>
<td>$4,848</td>
<td>Lori Bahre</td>
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<tr>
<td>FNC03-441</td>
<td>Raising Tilapia Fish in Tanks Along with Plants and Vegetables in Beds</td>
<td>$15,930</td>
<td>Irene Seals</td>
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<tr>
<td>FNC03-446</td>
<td>Reinventing the Family Farm</td>
<td>$5,263</td>
<td>Brenda Lyons</td>
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<td>FNC03-457</td>
<td>Student Producers for the Future</td>
<td>$5,960</td>
<td>Louis Reuschel Ocean Farm</td>
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<td>FNC02-409</td>
<td>Year-Round Management Intensive Grazing</td>
<td>$5,820</td>
<td>Jason Smith</td>
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<tr>
<td>FNC02-428</td>
<td>Future Farming Families</td>
<td>$14,970</td>
<td>Ida Thurman</td>
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<td>FNC01-338</td>
<td>North Central Region Paddlefish Polyiculture</td>
<td>$14,378</td>
<td>Scott Miller</td>
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<td>FNC01-375</td>
<td>Re-Introduction of Flax as a Viable Economic and Rotational Crop in an Organic System (Phase II)</td>
<td>$2,063</td>
<td>Joel Rissman</td>
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<td>FNC01-382</td>
<td>Alternative Agriculture in Southern Illinois</td>
<td>$2,530</td>
<td>Robert Boyd</td>
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<td>FNC01-385</td>
<td>Production of Black Bass in Southern Illinois Coal Mine Lakes</td>
<td>$5,000</td>
<td>Pam Wilkey</td>
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<td>FNC00-309</td>
<td>Incorporating Rotational Grazing in the Crop Rotation</td>
<td>$5,000</td>
<td>Raymond Meismer</td>
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<td>FNC99-006</td>
<td>Free Range/Pastured Poultry Laboratory Analysis/Demonstration with an Organic Feed Component</td>
<td>$3,850</td>
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<tr>
<td>FNC99-007</td>
<td>Free Range/Pasture Poultry Laboratory Analysis/Demonstration with an Organic Feed Component</td>
<td>$5,250</td>
<td>Debbie Hudson</td>
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<tr>
<td>FNC99-249</td>
<td>Re-introduction of Flax as a Viable Economic and Rotational Crop in an Organic System</td>
<td>$875</td>
<td>Joel Rissman</td>
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</tbody>
</table>
Breeding Better Apple Varieties for the Midwest $13,748 Jim Eckert

Phase 1 of Reuschel’s Sustainable Demonstration Farm $3,800 Louis Reuschel Ocean Farm

Trout and Walleye Production in Freshwater Springs in Illinois $4,834 Michael Rahe

Expansion of Grape Production $4,940 Marchell Baehr Rolling Hills Vineyard

Linking Downstate Illinois Small-Scale Goat and Sheep Producers $2,338 Less and Penny Gioja Joy-of-Illinois Farm

Free-Range/Pastured Poultry Comparison Demonstration with an Organic Feed Component $10,000 John and Ida Thurman

Sugar Maple Control and Hardwood Restoration in Central Illinois Woodland $5,000 Kevin Green

Long-term Benefits of Cover Crops and Crop Rotation $4,818 Ralph Upton, Jr. Upton farms

Implementing Sustainable Organic Practices $3,620 Larry Kennel

Cover Crop Management in the Upper Midwest $2,332 Kim Burkhart

Strip Cropping in a Four-Crop Rotation $3,428 Larry Kennel

Low-Cost Waste Management in Beef Cattle Operation $3,277 Joel Rissman

Night Crawlers as Natural Soil Conditioners $4,340 Robert VanHoveln

No-Tilling Hairy Vetch into Crop Stubble and CRP Acres $3,760 Walt Townsend

Establishment of Native Warm and Cool Season Grasses on Highly Erodible Land $2,951 Michael and Debi Herren

<table>
<thead>
<tr>
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<tr>
<td>GNC20-297</td>
<td>Improving apple and peach pollination by advancing knowledge of how forest management affects wild bee functional diversity</td>
<td>$14,799</td>
<td>Jennifer Fraterrigo University of Illinois at Urbana-Champaign Dr.Alexandra Harmon-Threatt University of Illinois, Urbana-Champaign Marissa Chase University of Illinois, Urbana-Champaign</td>
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</tbody>
</table>

GNC19-292 What soil ecosystem services and economic benefits does 50 years of no-till provide in contrast to other tillage practices in Southern Illinois? $14,978 Dr.Amir Sadeghpour Amanda Weidhuner Southern Illinois University Carbondale

GNC19-293 Applying ecological treatments to boost yields among restoration target species of seed production areas $14,942 Dr.Jeffrey Matthews Jack Zinnen University of Illinois at Urbana-Champaign

GNC17-238 Understanding aphidophagous hoverfly winter survival strategies in Midwest farmscapes to improve conservation biological control $11,993 Dr.Alexandra Harmon-Threatt Scott Clem University of Illinois, Urbana-Champaign

GNC15-217 Developing Effective Treatments for Eradication of Xanthomonas cucurbitae in Pumpkin Seed $9,990 Mohammad Babadoost Xiaoyue Zhang University of Illinois

GNC15-201 Agricultural, ecological, and Social Responses to an Invasive Grass and its Removal in Working Midwestern Grasslands $9,977 Dr.James Miller Jaime Coon University of Illinois at Urbana-Champaign

GNC14-198 Farming in the City: How Does the Altered Urban Environment Influence Cropping System Productivity, Ecology, and Profitability? $9,944 Dr.Jack A. Juvik Sam Wortman Ross Wagstaff University of Illinois Urbana-Champaign University of Nebraska - Lincoln University of Illinois Urbana-Champaign

GNC12-160 Effects of Cover Crop combinations and Fertilizer Application Timing on Nitrogen Leaching $9,900 Dr.Shalamar Armstrong Corey Lacey Illinois State University

GNC10-127 Regulating Feed Intake of Group Housed Gilts by Altering Dietary Cation/Anion Difference $9,450 Dr.Paul Walker Arwyn Schumacher Illinois State University

GNC10-139 Effective Management for Fire Blight for Sustainable Apple Production in Illinois $10,000 Mohammad Babadoost Andrew Jurgens University of Illinois

GNC10-144 Determining the Host-range and Developing Seed-treatment for Managing Bacterial Spot on Pumpkin $10,000 Mohammad Babadoost Abbasali Ravanlou UIUC

GNC08-094 Assessing Reduced-risk Insecticides and Refining Distribution and Phenology Models to Improve Management of Oriental Fruit Moth (OFM) in Apples and Peaches $10,000 Dr.Richard Weinzierl Moneen Jones University of Illinois at Urbana-Champaign

GNC08-100 Evaluation soil quality and lead in Chicago community and school gardens $9,857 Dr.Michelle Wander Laura Witzling UW-Madison

GNC08-087 Determining the effectiveness of mustard short-cycle cover crops in managing soil-borne fungal pathogens in cucurbits $10,000 Mohammad Babadoost Shaijal Babu Thru Ppoyil University of Illinois
GNC07-074  Developing an Effective Strategy for Management of Internal Discoloration of Horseradish Root $10,000  Mohammad Babadoost
University of Illinois
Anas Eranthodi
University of Illinois

GNC06-057  Cropping intensity and organic amendments in transitional farming systems $9,375  Dr. Darin Eastburn
University of Illinois
Shin-Yi Lee
University of Illinois

GNC05-047  Determining the occurrence and distribution of viruses causing diseases on cucurbit crops for developing effective management strategies. $9,890  Mohammad Babadoost
University of Illinois
Sushma Jossey
University of Illinois

GNC05-053  Developing Methods for Determining Survival of Phytophthora capsici in Soil for Establishing Effective Cropping Rotations for Sustainable Vegetable Production $9,794  Mohammad Babadoost
University of Illinois
Carlos Pavon
Dept. Crop Science, University of Illinois at U-C

GNC04-028  The Agricultural and Ecological Functioning of a System Integrating Pastured Poultry and Raised-Bed Vegetable Production. $9,950  Benjamin Tracy
University of Illinois
Ben Lubchansky
University of Illinois

GNC04-031  Developing Multimedia Resources for Educators in Informal and Formal Agricultural Education Settings $9,950  Anne Heinze Silvis
University of Illinois at Urbana-Champaign
Neil Knobloch
University of Illinois
Jennifer Herman
University of Illinois at Urbana-Champaign

GNC02-006  Determining Genotypic and Pathogenic Diversity Among Phytophthora Capsici Isolates for Establishing Sustainable Cropping Rotations $10,000  Mohammad Babadoost
University of Illinois
Donglan Tian
University of Illinois at Urbana-Champaign

ON FARM RESEARCH/PARTNERSHIP GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| ONC21-082| Midwestern Hemp Database: Utilizing Grower-Cooperator Networks to Assess Variety Performance of Industrial Hemp Across the North Central Region | $39,834      | Phillip Alberti  
University of Illinois Extension                  |
| ONC20-081| The Agroforestry Apprenticeship Program: On-farm and online training for the next generation of agroforestry farmers | $40,000      | Dr. Kevin Wolz, PhD  
Savanna Institute                                      |
| ONC20-078| Research and Demonstration of Precision Planting of Cover Crop Mixtures for Improving Farm Profit and Soil Health | $39,995      | Dr. Amir Sadeghpour  
Southern Illinois University Carbondale                  |
| ONC19-057| Field Salad: A No-management Cover Crop to Move Practice Adoption Beyond Just the Innovator Farmer | $29,740      | Catie Gregg  
Prairie Rivers Network                                      |
| ONC19-064| Management-Associated Risk Factors and Economic Impact of Anaplasmosis in Illinois Beef Herds | $39,955      | Dr. Teresa Steckler  
University of Illinois                                      |
| ONC18-040| Managing continuous living cover in Midwest organic grain production systems to balance productivity with soil health | $29,753      | Will Glazik  
IDEA Farm Network                                       |
| ONC17-035| Interseeding Fall Catch Crops in Winter Wheat | $29,974      | Dr. Michelle Wander  
University of Illinois                                     |
### YOUTH EDUCATOR GRANTS

<table>
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<th>Project #</th>
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</table>
| YENC20-144 | FarmBot Project | $4,000 | Mark Becker  
University of Illinois 4H Extension  
Erin Harper  
University of Illinois Extension |
| YENC20-149 | DCCG Sustainable Agriculture  
Summer Camp | $2,160 | Dan Kenney  
DeKalb County Community Gardens  
Heather Edwards  
DeKalb County Community Gardens |
| YENC20-151 | Queens: One key to honeybee  
sustainability | $3,952 | Steve McNair  
Salem4youth |
| YENC19-135 | Star Farm Chicago’s Youth with  
Special Needs and Developmental  
Disabilities Sustainability Initiative  
Summer 2019 | $3,910 | Stephanie Dunn  
Star Farm Chicago  
Cornelius Hodges  
Star Farm Chicago |
| YENC17-109 | Prairie Farm Corps Youth  
Development Program | $2,000 | Shannon McBride  
Liberty Prairie Foundation |
| YENC17-119 | Sustainable Agriculture Youth  
Workforce Development Program | $2,000 | Marnie Record  
Lincoln Land Community College |
| YENC16-097 | Sustainable Agriculture Technology  
Summer Camp | $2,000 | Thomas Elsey  
Triton College  
Tricia Wagner  
Triton College |
| YENC16-105 | Boys & Girls Club Community  
Garden | $2,000 | Alana Reynolds  
Grow Springfield (Illinois Stewardship Alliance) |
| YENC15-091 | Building Community and Growing  
Food with the Next Generation | $2,000 | Tod Satterthwaite  
Sola Gratia Farm |
| YENC15-082 | Hands-on sustainable agriculture  
using chestnuts and hazelnuts | $2,000 | Dee Scott  
Casey-Westfield CUSD #C-4  
Bryan Bennett  
Casey-Westfield High School |
| YENC14-075 | Urban Agriculture Summer Institute | $1,997 | Dr. Fredric Miller  
Joliet Junior College |
| YENC14-080 | Manos, Tierra, y Alimento (Hands,  
Soil, and Food) | $2,000 | Liz Whitehurst  
Angelican Organics Learning Center |
| YENC13-065 | PRIDE Garden (Positive, Respectful,  
Impressive, Disciplined, Educated) | $1,997 | Monica Pierce  
Freeport High School |
| YENC12-049 | Curriculum and Community  
Discussion Guide to Accompany the  
Educational film Deep Roots | $1,910 | Janice Hill  
Kane County |
# YOUTH GRANTS

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<th>Project #</th>
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<tr>
<td>YNC10-052</td>
<td>How can I fit pigs into my family’s farm?</td>
<td>$400</td>
<td>Lydia Gioja</td>
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<td>Joy of Illinois Farm</td>
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<td>YNC10-058</td>
<td>Composting with Red Wiggler Worms</td>
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<td>Emma Ahern</td>
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<td>Julie Ahern</td>
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<td>Andrew Cooke Magnet School</td>
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<td>YNC10-060</td>
<td>The Aquaponic Journey of A Lifetime</td>
<td>$400</td>
<td>Ryan Marcelo</td>
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<td>YNC08-009</td>
<td>Raising A Heritage Breed of Poultry</td>
<td>$400</td>
<td>Eric Lehrer</td>
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<td>YNC08-012</td>
<td>Composting Public Waste for the Community Garden</td>
<td>$400</td>
<td>Louisha Anthony</td>
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**Total funding from the USDA SARE program to Illinois**

**$3,623,283**

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For further information on projects, contact North Central SARE at (612) 626-3113 or ncrsare@umn.edu. Sustainable Agriculture Research and Education (SARE) is funded by USDA’s National Institute of Food and Agriculture (NIFA).