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.

Project Highlight: Bringing Fresh Foods to Illinois Schools and Institutions

While fresh, local foods have become very popular in grocery stores, restaurants, and farmers' markets, "institutionalized food is the forgotten part of the food revolution," says Ann Swanson, the farm director at Hendrick House. This private business offers housing, catering, and dining hall services for the University of Illinois Urbana-Champaign. The institutions that provide dining services for grade schools and higher education tend to favor pre-packaged, processed foods over fresh, homemade foods because they are cheaper to source and nutritional guidelines are easier to track. Also, food service employees often lack the training to prepare fresh foods. To ensure the Hendrick House Farm's long-term survival and create new opportunities for other local farmers, Swanson set out to bring the local food revolution to her company and schools in her community.

Supported by a three-year SARE Farmer/Rancher grant, Swanson launched a series of educational activities for multiple audiences based out of Hendrick House's kitchens and at its 10-acre farm, which includes a one-acre demonstration area. She created a guidebook and held workshops for food service staff on storage and preparation of fresh foods, and worked with chefs on how to plan for and procure local, seasonal produce.

Swanson also teamed up with area nonprofits and schools to bring youths to her demonstration farm so they could see where food comes from and learn how to make healthy food choices. She hosted a range of groups, including kindergarteners, middle and high schoolers, STEM classes, and a group of at-risk boys. During the project, her outreach grew to include the Illinois Master Gardeners and Parkland College, which held horticulture and culinary classes on the farm.

"This project has changed our company immensely over the last two years," says Swanson, citing positive results of new partnerships with area schools and nonprofits.

For more information on this project, see sare.org/projects, and search for project number FNC17-1101.

SARE in Illinois

northcentral.sare.org/state-programs/illinois

$4,670,674 in total funding

175 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: 175 grants
- 23 Research and Education
- 13 Professional Development Program
- 73 Farmer/Rancher
- 29 Graduate Student
- 10 On Farm Research/Partnership
- 22 Youth Educator
- 5 Youth

Total funding: $4,670,674
- $2,612,802 Research and Education
- $734,854 Professional Development Program
- $552,156 Farmer/Rancher
- $339,960 Graduate Student
- $358,509 On Farm
- $70,393 Research/Partnership
- $2,000 Youth Educator
- $2,000 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/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.

Doug Gucker
University of Illinois
(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 $4,670,674 grants to support 173 projects, including but not limited to, 21 research and/or education projects, 13 professional development projects and 73 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>
</tr>
</thead>
<tbody>
<tr>
<td>LNC22-465</td>
<td>Collaborative Outreach and Demonstration of Farm-based Tile-Treatment Wetlands for Water Quality Improvement</td>
<td>$143,480</td>
<td>Jill Kostel, Ph.D. The Wetlands Initiative</td>
</tr>
<tr>
<td>LNC22-473</td>
<td>Novice-to-Producer Agroforestry Education: Linking demonstration farms to online learning, apprenticeships, &amp; communities of practice</td>
<td>$249,597</td>
<td>Kate Wersan Savanna Institute</td>
</tr>
<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>
</tr>
<tr>
<td>LNC19-429</td>
<td>Establishing a Network of Agroforestry Research &amp; Demonstration Farms</td>
<td>$199,893</td>
<td>Kaitie Adams Savanna Institute</td>
</tr>
<tr>
<td>LNC18-402</td>
<td>A Decision Support Tool for Adaptive Management of Cereal Rye in No-till Organic and Conventional Soybeans</td>
<td>$199,507</td>
<td>Dr. Martin Williams, II USDA-Agricultural Research Service</td>
</tr>
<tr>
<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>
</tr>
<tr>
<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>
</tr>
<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>
</tr>
<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>
</tr>
<tr>
<td>LNC07-282</td>
<td>Best Sustainable Management Practices For Perennial Weeds</td>
<td>$144,003</td>
<td>Dan Anderson John Masiunas University of Illinois</td>
</tr>
<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>
</tr>
<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>
</tr>
</tbody>
</table>
The Use of Farmer Directed Teams to Improve Milk Quality on Family Dairy Farms

LNC00-169 Assisting Farmers in Crisis to Adopt Sustainable Marketing Alternatives

Sustaining Farms and Biodiversity through Woodland Cultivation of High-Value Crops

Nutrient and Pesticide Loads in Subsurface Drainage from Organic and Conventional Cropping Practices

Microbial Indices of Soil Quality

On-Farm Adaptation of Integrated Crop and Livestock Systems in Illinois

Regional Workshop for Educators on the use of Cover Crops in Sustainable Farming Systems

Social and Cultural Factors Affecting Sustainable Farming Systems and the Barriers to Adoption

Participatory Research and Education Network for Sustainable Agriculture in Illinois

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC23-231</td>
<td>Climate Decision Tool Workshops for Ag/Natural Resource Professionals in Illinois</td>
<td>$31,699</td>
<td>Duane Friend University of Illinois Extension</td>
</tr>
<tr>
<td>ENC22-212</td>
<td>Soil Matters in Illinois</td>
<td>$80,463</td>
<td>Dr. Travis Burke Illinois Extension</td>
</tr>
<tr>
<td>ENC21-202</td>
<td>Building Deeper Connections: Advanced Regenerative Grazing Training For Agriculture Advisors in Eastern Illinois</td>
<td>$89,093</td>
<td>Erin Gundy Soil Health Institute Katie Lynn Bell</td>
</tr>
<tr>
<td>ENC20-188</td>
<td>Intensivo Biodinamico: Piloting Spanish Language Training in Biodynamics</td>
<td>$19,288</td>
<td>Kerri Quinlan Biodynamic Association</td>
</tr>
<tr>
<td>ENC20-191</td>
<td>Online Agroforestry Course for Professionals</td>
<td>$79,620</td>
<td>Dr. Keefe Keeley Savanna Institute</td>
</tr>
<tr>
<td>ENC20-192</td>
<td>Innovating Education of Agricultural Professionals on Organic Field Crop Production with a Flipped Classroom Approach</td>
<td>$89,731</td>
<td>Mallory Krieger Organic Trade Association</td>
</tr>
<tr>
<td>ENC15-143</td>
<td>From the Classroom to the Field: Advanced Soil Health Training for Illinois Ag Service Providers</td>
<td>$74,602</td>
<td>Jennifer Filipiak Driftless Area Land Conservancy</td>
</tr>
<tr>
<td>ENC13-138</td>
<td>Developing and Disseminating Legal Issues Curricula to Educators Who Assist Sustainable Farmers</td>
<td>$70,714</td>
<td>Cara Cummings</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| FNC23-1379    | Getting Big Milk Out of Small Dairy: A Milking Parlor Construction Guide For Herdshares, Creameries and Those Bootstrapping on Rented Land | $15,000      | Travis Hurt  
North Sky Farm |
| FNC23-1387    | Growing a profitable urban farming cooperative in a low-income neighborhood    | $7,522       | Matthew Norris  
OTIS Fresh Farm |
| FNC22-1358    | Cultivating mushrooms and producing soil amendments using underutilized waste materials to increase profitability in an agroforestry system. | $15,000       | Alexis Weintraub  
Zumwalt Acres |
| FNC21-1269    | Smooth and Social Root’s Youth Urban Agriculture Education Pilot Program       | $8,920       | David Edwards  
Smooth and Social Roots |
| FNC21-1279    | Pioneering assessment of a woodchip bioreactor with an organic cropping system  | $8,997       | Dr.Shirley Johnson  
Johnson Farm |
| FNC21-1287    | Double Crop Organic Sunflowers in Northern Illinois                           | $6,570       | Jacob Landis  
JL Acres LLC |
| FNC21-1315    | Investigating the Ecological Impact of Pairing Agroforestry Establishment with Biochar Production | $7,609       | Gavrielle Welbel  
Zumwalt Acres |
| FNC20-1209    | Simultaneous Interseeding of Corn and Cover Crops at Various Row spacings     | $18,000      | Andrew Bowman  
Bowman Farm |
| FNC20-1219    | Exploring Flavor and Yield of Heirloom Corn Varieties for Spirit Production   | $17,530      | Will Glazik  
Cow Creek Farm |
| FNC20-1237    | Impact of Commercial Fungal Inoculant on Tomato Yield and Disease Resistance in Deep Composted Raised Beds | $8,907       | Shannon McBride  
Liberty Prairie Foundation |
FNC19-1178 Establishing a perennial living mulch for weed control in sweet corn $8,088 Charles Martin Willow Creek Farm

FNC19-1182 Moving Beyond Anecdotes: Making Data Driven Decisions to Adapt to Climate Change $7,859 Jeff Miller Prairie Wind Family Farm

FNC19-1199 The cultivation of wild yeast strains to add value to farmhouse fermentation $26,370 Maggie Wachter Second Nature Honey

FNC19-1200 Enhancing berry farm profitability through perennial alley crops $8,940 Dr. Kevin Wolz, PhD Midwest Agroforestry Solutions

FNC18-1137 Finding the right mix of Cover Crops in a Sweetcorn and Snap Bean operation in the Midwest $7,500 Mark O'Rourke O'Rourke Family Gardens

FNC18-1141 Soil Remediation Techniques in Urban Agriculture $14,975 Casey Sabatka Dirty Boots Flowers

FNC17-1101 Increasing the Use of Farm Fresh Food in Institutional Settings by Educating Chefs, Youth, and Local Farmers through Demonstrations, Workshops, and Visual References $7,448 Ann Swanson Hendrick House

FNC17-1106 Creating a Resource on How to Build an Urban Farm in Chicago with a Modest Budget $7,500 Catherine Williams Chicago Patchwork Farms

FNC15-1018 Utilizing precision application of cover crops to minimize planting challenges while maximizing benefits to corn $7,289 Ralph Upton, Jr. Upton farms

FNC15-1019 Developing a method to capture and authenticate single varietal honey on diverse landscapes $11,734 Maggie Wachter Second Nature Honey

FNC13-905 Growing hydroponic fodder for dairy goats on a limited acreage farm $7,500 Linda DuShane Heart’s Quest Dairy Goats

FNC13-918 Marcoot Jersey Creamery Comprehensive Food Safety Program $7,495 Beth Marcoot Marcoot Jersey Creamery

FNC13-920 Establishing a Year-round Urban Greenhouse Herb Garden $7,500 Emmanuel Pratt

FNC13-930 Developing Vertically Integrated Edible Bio-systems in a USDA Hardiness Zone 5 Environment $6,923 Dave Bishop PrairiErth Farm

FNC10-822 Sustainable beekeeping: increasing production and utilization of northern-adapted, disease and mite resistant honey bee queens $15,431 stewart jacobson Illinois Queen Initiative

FNC10-835 Four-Season Vegetable Production Utilizing High Tunnels, Floating Row Cover, and a Compost Heat Exchanger. $5,994 Phillip Swartz beyondsustainable.farm

FNC09-773 Adding Value to Our Seventh Generation Dairy Farm by Turning Our Milk into Farmstead and Artisan Cheeses $6,000 Amy Marcoot
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

The mentoring of young adults with non-farm background in the production and local marketing of organic vegetable crops

Increasing the production and use of disease and mite resistant queens adapted to northern conditions

Roller-Crimper Construction and No-Till Organic Weed Control Trials

Marketing of Small Amounts of Organic Grains through Alternative Broiler Feeds and Direct to Consumer Sales

Establishment of an Organic, Sustainable Small-Scale Farm Producing Livestock (Goats/Chickens) and Vegetables for Niche Markets in Chicago

Water Conservation and Grey Water Recycling at Three Rivers Community Farm

Bringing the Retail Dollar Home-Increasing Profitability of Small Scale Meat Production Through Direct Marketing

To Be Able to Introduce Healthy and Economical Agricultural to a New and Lost Generation

Northern Production of Disease and Mite Resistant Queen Honey Bees

Okra [Abelmoschus esculentus] an Oilseed for Stressful Conditions of the Midwest

Determination of an Economically Optimal Organic Control of Onion Maggots in Allium Crops

Resource Center City Farm

Three Little Fishes

Conducting a Variety Trial to Find the Best Marketable Organic Tomato Product

Growing Fish - Plants in a Aquaponic System

Use of Worm Casting Extract in Ag Production
<table>
<thead>
<tr>
<th>Project Code</th>
<th>Project Title</th>
<th>Budget</th>
<th>Implementor</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNC04-540</td>
<td>Integrated Cultural Production Methods for Maximum Okra Seed Yields</td>
<td>$4,933</td>
<td>Michael Vincent</td>
</tr>
<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>
</tr>
<tr>
<td>FNC03-446</td>
<td>Reinventing the Family Farm</td>
<td>$5,263</td>
<td>Brenda Lyons</td>
</tr>
<tr>
<td>FNC03-457</td>
<td>Student Producers for the Future</td>
<td>$5,960</td>
<td>Louis Reuschel</td>
</tr>
<tr>
<td>FNC03-447</td>
<td>Raising Tilapia Fish in Tanks Along with Plants and Vegetables in Beds</td>
<td>$15,930</td>
<td>Irene Seals</td>
</tr>
<tr>
<td>FNC02-409</td>
<td>Year-Round Management Intensive Grazing</td>
<td>$5,820</td>
<td>Jason Smith</td>
</tr>
<tr>
<td>FNC02-428</td>
<td>Future Farming Families</td>
<td>$14,970</td>
<td>Ida Thurman</td>
</tr>
<tr>
<td>FNC01-338</td>
<td>North Central Region Paddlefish Polyculture</td>
<td>$14,378</td>
<td>Scott Miller</td>
</tr>
<tr>
<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>
</tr>
<tr>
<td>FNC01-382</td>
<td>Alternative Agriculture in Southern Illinois</td>
<td>$2,530</td>
<td>Robert Boyd</td>
</tr>
<tr>
<td>FNC01-385</td>
<td>Production of Black Bass in Southern Illinois Coal Mine Lakes</td>
<td>$5,000</td>
<td>Pam Wilkey</td>
</tr>
<tr>
<td>FNC00-309</td>
<td>Incorporating Rotational Grazing in the Crop Rotation</td>
<td>$5,000</td>
<td>Raymond Meismer</td>
</tr>
<tr>
<td>FNC99-006</td>
<td>Free-Range/Pastured Poultry Laboratory Analysis/Demonstration with an Organic Feed Component</td>
<td>$3,850</td>
<td>Irene Seals</td>
</tr>
<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>
</tr>
<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>
</tr>
<tr>
<td>FNC99-270</td>
<td>Breeding Better Apple Varieties for the Midwest</td>
<td>$13,748</td>
<td>Jim Eckert</td>
</tr>
<tr>
<td>FNC99-283</td>
<td>Phase 1 of Reuschel's Sustainable Demonstration Farm</td>
<td>$3,800</td>
<td>Louis Reuschel</td>
</tr>
<tr>
<td>FNC99-283</td>
<td>Phase 1 of Reuschel's Sustainable Demonstration Farm</td>
<td>$3,800</td>
<td>Louis Reuschel</td>
</tr>
<tr>
<td>FNC98-005</td>
<td>Free-Range/Pastured Poultry Comparison Demonstration with an Organic Feed Component</td>
<td>$10,000</td>
<td>John and Ida Thurman</td>
</tr>
<tr>
<td>FNC98-231</td>
<td>Sugar Maple Control and Hardwood Restoration in Central Illinois Woodland</td>
<td>$5,000</td>
<td>Kevin Green</td>
</tr>
<tr>
<td>Project #</td>
<td>Project Title</td>
<td>SARE Support</td>
<td>Project Leaders</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>--------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| GNC23-381    | Unearthing the Scent of Soil Health: A Validation of Smell through Odorant VOCs for Farmer Assessment | $14,492      | Dr. Andrew Margenot  
University of Illinois Urbana-Champaign  
Finnleigh Woodings  
UIUC |
| GNC22-344    | Mapping the current extent and suitability of agroforestry in the US Midwest  | $14,938      | Richard Brazee  
University of Illinois Urbana-Champaign  
Daniel Miller  
University of Notre Dame  
Sarah Castle  
University of Illinois Urbana-Champaign |
| GNC22-358    | The Impact of Buckwheat Plantings on Releases of Parasitoid Wasps on a Dairy Farm | $14,229      | Dr. Bethia King  
Northern Illinois University  
Dr. Edwin Burgess, IV  
University of Florida  
Elizabeth Taylor  
Northern Illinois University |
| GNC22-360    | Testing the potential of distilling as an alternative use for DON-contaminated wheat | $14,764      | Matthew Stasiewicz  
University of Illinois at Urbana-Champaign  
Jiaying Wu  
University of Illinois Urbana-Champaign |
GNC22-361 Recovering the lost nutrients from subsurface drainage systems towards agricultural sustainability
Rabin Bhattarai
University of Illinois at Urbana-Champaign
Hongxu Zhou
University of Illinois at Urbana-Champaign
$14,844

GNC21-320 Effects of depth and cover crop treatment on the functioning and diversity of soil microbial communities
Dr. Victoria Borowicz
Illinois State University
Rob Rhykerd
Illinois State University
Emily Hansen
Illinois State University
$14,982

GNC21-338 Overcoming Barriers to Grass-Based Agriculture in the Driftless Region
Dr. William Stewart, PhD
Dept of Recreation, Sport and Tourism
Dr. John Strauser
University of Wisconsin-Madison
$11,827

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

GNC20-298 Refining Interseeding Winter Wheat Practices as a Sustainable Approach for Suppressing Common Waterhemp in Soybean
Dr. Karla Gage
Southern Illinois University Carbondale
Madison Decker
Southern Illinois University
$15,000

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?
Dr. Amir Sadeghpour
Southern Illinois University Carbondale
Amanda Weidhuner
Southern Illinois University Carbondale
$14,978

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

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

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

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

GNC14-198 Farming in the City: How Does the Altered Urban Environment Influence Cropping System Productivity, Ecology, and Profitability?
Dr. Jack A. Juvik
University of Illinois Urbana-Champaign
Sam Wortman
University of Nebraska - Lincoln
Ross Wagstaff
University of Illinois Urbana-Champaign
$9,994

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

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

GNC10-139 Effective Management for Fire Blight for Sustainable Apple Production in Illinois
Mohammad Babadoost
University of Illinois
Andrew Jurgens
University of Illinois
$10,000
GNC10-144  Determining the Host-range and Developing Seed-treatment for Managing Bacterial Spot on Pumpkin  $10,000  Mohammad Babadoost  University of Illinois  Abbasali Ravanlou  UIUC

GNC08-087  Determining the effectiveness of mustard short-cycle cover crops in managing soil-borne fungal pathogens in cucurbits  $10,000  Mohammad Babadoost  University of Illinois  Shaijal Babu Thru Ppoyil  University of Illinois

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  University of Illinois  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  University of Illinois  Laura Witzling  UW-Madison

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.  $9,900  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.  $9,995  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>
| ONC23-129 | Increasing rye cover crop adoption through novel, practical, and farmer-driven management practices | $49,350      | Dr. Amir Sadeghpour  
Southern Illinois University Carbondale |
| ONC21-082 | Midwestern Hemp Database: Utilizing Grower-Cooperator Networks to Assess Variety Performance of Industrial Hemp Across the North Central Region | $39,834      | Chelsea Harbach, Ph.D.  
University of Illinois Extension  
Philip Alberti  
University of Wisconsin-Madison |
The Agroforestry Apprenticeship Program: On-farm and online training for the next generation of agroforestry farmers

Dr. Kevin Wolz, PhD
Savanna Institute

Research and Demonstration of Precision Planting of Cover Crop Mixtures for Improving Farm Profit and Soil Health

Dr. Amir Sadeghpour
Southern Illinois University Carbondale

Management-Associated Risk Factors and Economic Impact of Anaplasmosis in Illinois Beef Herds

Dr. Teresa Steckler
University of Illinois

Field Salad: A No-management Cover Crop to Move Practice Adoption Beyond Just the Innovator Farmer

Catie Gregg
Prairie Rivers Network

Managing continuous living cover in Midwest organic grain production systems to balance productivity with soil health

Will Glazik
Cow Creek Farm

Interseeding Fall Catch Crops in Winter Wheat

Dr. Michelle Wander
University of Illinois

Evaluating and Sharing Techniques in Silvopasture Establishment

Dr. Keefe Keeley
Savanna Institute

Crop Performance, Pests, and Pollinators in Diverse Agroforestry Systems

Dr. Keefe Keeley
Savanna Institute

---

**YOUTH EDUCATOR GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>YENC23-190</td>
<td>Kendall Agricultural Careers Field Trip Series</td>
<td>$4,222</td>
<td>Ariel Beauchamp&lt;br&gt;Kendall County Soil and Water Conservation District</td>
</tr>
<tr>
<td>YENC23-191</td>
<td>Chicago Lights Urban Farm Indoor Culinary Garden Project</td>
<td>$6,000</td>
<td>Joi Brooks&lt;br&gt;Chicago Lights&lt;br&gt;Stacy Jackson&lt;br&gt;Chicago Lights&lt;br&gt;Paxton Suggs&lt;br&gt;Chicago Lights</td>
</tr>
<tr>
<td>YENC23-207</td>
<td>The Zumwalt Acres Apprenticeship Program: An accessible farming experience for educating and empowering emerging growers</td>
<td>$6,000</td>
<td>Gavrielle Welbel&lt;br&gt;Zumwalt Acres</td>
</tr>
<tr>
<td>YENC22-172</td>
<td>Urban Growers Collective: Youth Corps Teen Education and Employment</td>
<td>$4,000</td>
<td>Erika Allen&lt;br&gt;Urban Growers Collective</td>
</tr>
<tr>
<td>YENC22-174</td>
<td>Rooted in the Community: Sustainable Ag Youth Summer Camp</td>
<td>$4,605</td>
<td>Ellen Burns&lt;br&gt;Carl Sandburg College</td>
</tr>
<tr>
<td>YENC22-189</td>
<td>Using Raspberry Pi technology to remote monitor and control hydroponic systems</td>
<td>$5,776</td>
<td>Taylor Zurliene&lt;br&gt;Wesclin High School</td>
</tr>
<tr>
<td>YENC21-168</td>
<td>Growing Solutions Farm</td>
<td>$3,905</td>
<td>Barbara McKillop&lt;br&gt;Urban Autism Solutions&lt;br&gt;Tucker Kelly&lt;br&gt;Urban Autism Solutions</td>
</tr>
<tr>
<td>YENC20-144</td>
<td>FarmBot Project</td>
<td>$4,000</td>
<td>Mark Becker&lt;br&gt;University of Illinois 4H Extension&lt;br&gt;Erin Harper&lt;br&gt;University of Illinois Extension</td>
</tr>
</tbody>
</table>
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)

YENC15-082  Hands-on sustainable agriculture using chestnuts and hazelnuts  $2,000  Dee Scott  Casey-Westfield CUSD #C-4  Bryan Bennett  Casey-Westfield High School

YENC15-091  Building Community and Growing Food with the Next Generation  $2,000  Traci Barkley  Sola Gratia Farm

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  Leah Lawson  Angelic 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

YENC12-050  Growing a Future  $1,960  Dan Kenney  DeKalb County Community Gardens

YOUTH GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>YNC10-052</td>
<td>How can I fit pigs into my family’s farm?</td>
<td>$400</td>
<td>Lydia Gioja  Joy of Illinois Farm</td>
</tr>
<tr>
<td>YNC10-058</td>
<td>Composting with Red Wiggler Worms</td>
<td>$400</td>
<td>Emma Ahern  Julie Ahern  Andrew Cooke Magnet School</td>
</tr>
<tr>
<td>YNC10-060</td>
<td>The Aquaponic Journey of A Lifetime</td>
<td>$400</td>
<td>Ryan Marcelo</td>
</tr>
</tbody>
</table>
YNC08-009  Raising A Heritage Breed of Poultry  $400  Eric Lehrer

YNC08-012  Composting Public Waste for the Community Garden  $400  Louisha Anthony

---

Total funding from the USDA SARE program to Illinois
$4,670,674

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).