



AGRICULTURE PROJECTS FUNDED IN MISSOURI

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

Missouri has been awarded \$4,261,021 to support 229 projects, including but not limited to, 27 research and/or education projects, 13 professional development projects and 152 producer-led projects. Missouri has also received additional SARE support through multi-state projects.

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RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
LNC15-368	On-farm and Ranch Education of New and Beginning Latino Producers in Missouri	\$163,227	Dr. Eleazar U. Gonzalez University of Missouri
LNC14-363	Detection and Prevention of Footrot Outbreak in Sheep and Goats	\$199,000	Dr. Tumen Wuliji Lincoln University of Missouri
LNC11-337	Sustainability of a Short-Rotation Woody Biofuel System Compared to Grass Biofuel and Grain Cropping Systems	\$198,321	Dr. Hank Stelzer University of Missouri
LNC10-324	Developing successful marketing strategies for elderberry growers and value added processors: a model for specialty crop development in the U.S. Midwest.	\$105,427	Dr. Michael Gold MU Center for Agroforestry
LNC09-309	Using Grazing Wedges to Match Beef Cattle Nutrient Need with Pasture Resources while Reducing Feed and Fertility Costs	\$148,137	Dr. William Sexten University of Missouri - Columbia
LNC07-283	Use of Herbs as De-wormers for Sustainable and Profitable Production of Sheep and Goats Under Natural Grazing Conditions	\$146,522	Dr. Helen Swartz Lincoln University Arlene Stewart Lincoln University
LNC04-245	Organic Integrated Pest Management in High Tunnel Vegetable, Small Fruit, and Flower Production	\$136,451	James Quinn University of Missouri
LNC02-216	Conjugated Linoleic Acid Content of Beef Finished with Pasture	\$97,533	Carol Lorenzen University of Missouri
LNC02-218	Planning Your Small Farm for Pleasure and Profit	\$98,480	Ronald Macher Sustainable Alternative Farming Institute (SAFI)

LNC01-191	Assessing and Enhancing Conjugated Linoleic Acid (CLA) Concentrations in Foods from Pastured Dairy and Beef Cattle	\$81,144	Lora Friest Resource Conservation and Development for Northeast Iowa, Inc
LNC01-193	Improving Agricultural Sustainability through Crop Diversification	\$97,800	Robert Myers Jefferson Institute
LNC00-178	Developing Alternative Distribution Networks to Groceries and Food Cooperatives for Sustainably Produced Missouri Grown Food	\$97,931	Russell Kremer Missouri Farmers Union
LNC00-173	Developing Pasture-based Dairy Systems for Family Farms	\$81,463	Robert Kallenbach University of Missouri-Columbia
LNC99-147	A Comprehensive Educational Program to Teach Farmers and Other Agricultural Professionals How to Produce and Market Free-Range Poultry	\$60,500	Linda Lee Resilience
LNC98-143	Adding Local Value with Community Partnership Strategies	\$37,800	Denise Durham Columbia Area Food Circle
LNC98-125	Feasibility of Agroforestry System using Management Intensive Grazing in Eastern Black Walnut Plantation	\$48,487	Sandra Hodge University of Missouri
LNC97-120	Use of a Vegetative Filter as an Alternative Waste Management System for a Sustainable Seasonal Management-Intensive Grazing Dairy	\$29,880	Richard Crawford, Jr. University of Missouri, SW Research Center
LNC96-105	Developing Sustainable Hog Markets and Slaughtering Arrangements for Family Farmers in Missouri	\$83,762	Douglas Constance Sam Houston State University
LNC95-087	Fresh-to-Processed: Adding Value for Specialty Markets	\$67,000	Deni Durham Missouri Organic Association
ANC94-021	Pasture-Based Beef Finishing Systems	\$60,000	Fredric Martz University of Missouri
LNC94-076	Pasture-Based Beef Finishing Systems	\$60,000	Fredric Martz University of Missouri
LNC92-048	Evaluating Relative Impacts of Conventional and Sustainable Farming Systems on Rural Communities	\$99,244	John Ikerd University of Missouri Columbia
LNC92-049	On-Farm Demonstration and Evaluation of Sustainable Farming Systems	\$30,000	John Ikerd University of Missouri Columbia
LNC91-038	Planned Grazing Systems for Sustainable Livestock Production	\$142,576	James R. Gerrish University of Missouri-Columbia
LS91-044	SMART--Sustaining and Managing Agricultural Resources for Tomorrow:	\$12,500	John Ikerd University of Missouri Columbia

Training for the Southern Region

LNC88-007	Low-Input (Sustainable Agriculture) Database and Information System	\$5,000	Tory Shade University of Missouri Extension
LNC88-005	Low-Input Agriculture and Cover Crop Workshop for Extension and Research Personnel from Nebraska, Iowa, Kansas, and Missouri	\$16,500	Tory Shade University of Missouri Extension

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
ENC16-154	Missouri Agroforestry Summer Institutes: High School Educator Training for Curriculum Delivery	\$70,334	Dr. Michael Gold MU Center for Agroforestry
ENC12-129	Increasing Agroforestry Adoption and Networking in the Midwest through Targeted Professional Development	\$74,842	Dr. Michael Gold MU Center for Agroforestry
ENC11-122	Alternative Energy Production and Utilization on Farms - A Workshop	\$67,878	Robert Broz University of Missouri Extension Dr. Hamed El-Mashad Lincoln University Dr. Majed Dweik Lincoln University
ENC11-124	Fostering Local Foods-Based Economic Development Strategies: Developing New Resources and Networks	\$74,999	Sharon Gulick University of Missouri
ENC08-102	Vegetable Grafting Training for Agricultural Professionals	\$61,837	Dr. Sanjun Gu North Carolina A&T State University
ENC07-099	Integrated Alternative Energy and Livestock Production Systems	\$50,000	Michael Seipel Hickory Hollow Farm
ENC04-084	Agroforestry Training for Professionals in Missouri and the Midwest	\$47,890	Dusty Walter University of Missouri Center for Agroforestry
ENC00-051	Local Food Systems and Community Food Security in the Midwest	\$40,691	Mary Hendrickson University of Missouri Columbia
ENC99-045	Sustainable Agriculture: A Profitable, Ecological, and Socially Sound Strategy for Small Farms	\$10,000	John Ikerd University of Missouri Columbia
ENC98-028	Alternative Information Networking to Support Sustainable Agriculture on Small Farms	\$32,950	John Ikerd University of Missouri Columbia
ENC97-016.1	New Opportunities for Families on Small Farms	\$30,000	John Ikerd University of Missouri Columbia
ENC96-016	Sustaining a Desirable Quality of Life through New Agricultural Opportunities for Farm Families on Small Farms	\$30,000	John Ikerd University of Missouri Columbia
ENC95-003B	Developing Educational Materials and	\$30,600	James R. Gerrish

Schools for Sustainable and Profitable
Grazing Systems

University of Missouri-Columbia

FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
FNC16-1051	Berkshire Value Added Meat Product Marketing Coalition	\$22,157	Jim Pierce Of The Earth Farm Distillery, LLC
FNC16-1058	Comparison of Seasonal (High Peak/Summer) Markets for Dairy Farm Product Sales	\$7,397	Janet Smith Borgman's Dairy Farm
FNC16-1043	Developing Sustainable, Natural Farming Techniques to Implement a Farmer's Market and Educate Underserved African American Communities	\$7,428	Obiagele Lake
FNC16-1037	Evaluation of Alternative Coverings for Year Long Utilization of Caterpillar Tunnels	\$7,488	Jason Hirtz Box Turtle Farm LLC
FNC16-1059	Expanding Warm Season High Tunnel Production Using Solar-Powered Ventilation	\$7,330	Ryan Smith The Farm at Kraut Run, LLC.
FNC16-1065	Growing Produce Vertically instead of Horizontally to get a High Production on a Small Urban Farm	\$6,577	Christine Williams Pepper Berries Urban Farm
FNC16-1062	Integrated Pest Management of Mealy Bugs in Commercial High Tunnels Fig Production	\$7,400	Ivan Stoilov
FNC16-1049	Modeling Efficiency and Safety in a Vegetable Wash and Pack House	\$7,360	James Millsap
FNC16-1032	Suburban Ducks: Providing Locally Pastured Meat Through an Urban Farm	\$7,500	Jason Ebinger
FNC15-999	"Greening" a Greenhouse Through Sustainable Energy Solutions	\$7,500	Rachel Levi EarthDance
FNC15-1023	Assessing Productivity and Profitability of Vegetable Production in the Central Missouri River Bottomlands: Tools for Farm Transitions	\$11,917	Emily Wright Small Farm Systems LLC
FNC15-985	Blueberry Field Renovation	\$7,496	Earnie Bohner Persimmon Hill Farm
FNC15-1001	Call to Farms	\$7,483	Wendy Lombardi Cultivating Veterans and Missouri Ozarks Veterans' Agriculture
FNC15-1013	Creating a Depository of Local Honey Bee Strains From Feral Swarms and Demonstrating a Sustainable Beekeeping Model Using Horizontal Hives and Bee-Friendly Management	\$7,469	Dr.Leo Sharashkin Goods From The Woods

FNC15-1007	Effectiveness of different cover crops for erosion, weed, pest, and disease suppression in pumpkins	\$3,818	Matt Moreland Farm
FNC15-1006	Evaluation of efficiency and efficacy of a method for managing the nutrient cycle on a bio-intensive micro-farm	\$6,344	Adam Millsap Urban Roots Farm
FNC14-950	A Comparison and Evaluation of Heritage and Broad-Breasted Turkeys on Pasture	\$5,933	Wesley Hunter Providence Farm
FNC14-973	Cover Crop-based Reduced Tillage for Fall Production of Cabbage, Cauliflower and Broccoli Using a Roller-Crimper and No-Till Planting Aid	\$7,480	Thomas Ruggieri Fair Share Farm
FNC14-958	Data Management for Marketing Alpaca Products	\$22,335	Dr.Mary Lickliger Heartfelt LLC
FNC14-981	Fodder System for Wool Producing Small Ruminants	\$7,481	Brian Willsey Rockin' W Alpaca Ranch
FNC14-970	Growing a Pear Orchard at an Organic Farm School to Increase Supply and Demand for Organic Tree Fruit in St. Louis, MO	\$7,500	Rachel Levi EarthDance
FNC14-952	Integrated Wildlife Management For Sustainable Agriculture	\$7,470	Scott Kelly SCARS Ag, LLC
FNC14-944	Pasture Weed Control with Juglone (Black Walnut) Spray	\$7,336	Serena Cochrane Stuart Farm, LLC
FNC13-938	Chickens and Trap Crops - An Integration of Sustainable Approaches to Insect Pest Control in Vegetable Production	\$6,462	Gary Wenig Rocky Creek Valley Farm
FNC13-931	Comparison of Annual Forages for Grazing Lambs on Previously-Cropped Ground	\$7,496.10	Michael Seipel Hickory Hollow Farm
FNC13-940	Evaluating the Roller-Crimper for Cover Crop Control in Corn and Soybeans on Terraced Ground	\$4,000	Michael Willis Michael Willis
FNC13-928	Optimizing Year Round Leek Production in the Ozarks	\$7,231	Daniel Roth Elixir Farm
FNC13-927	Small Mechanical Harvester for Edamame and Green Bean Production	\$7,481.90	Mary Ellen Raymond Weidner Farm
FNC12-866	A Comparison and Evaluation of Heritage Breed Broiler Chickens on Pasture	\$6,535	Wesley Hunter Providence Farm
FNC12-887	Blogging about the Establishment of a Manage Intensive Grazing Farm in Missouri that is Environmentally Friendly	\$7,482	Allan Sharrock Farmer

FNC12-852	Comparative Analysis of Unpasteurized Organic Milk vs. Organic Fish Emulsion and Kelp as an Organic Fertilizer for Livestock Forages	\$14,980	Tom Colonna Organian Farms LLC
FNC12-893	Formulating a Beneficial Organic Chicken Feed to Produce Soy-Free and Corn-Free Eggs	\$7,057	Jeri Villarreal Villarreal Family Farm, LLC.
FNC12-876	Hoeing Hens	\$5,251	Pieter Los Wil farm
FNC12-886	Increasing the Sustainability of Our Farm by Learning how to Best Produce Sorghum Molasses	\$7,224	Ron Rushly Little Dixie Family Farm
FNC12-888	Introducing Locally Grown Produce to Childcare Centers during Winter While Promoting Sustainable Nutrition through Education and Marketing	\$7,500	Jennifer Sikes Farmer
FNC12-891	Nutrition Enhancement of Produce Grown with a Micronutrient Mineral and Trace Element Supplement	\$1,264	Robert Teerlinck Sunny Acres Farm
FNC12-878	Phase 2: Burgundy Truffle Orchard Establishment - The Burgundy Truffle as a new sustainable agro-forestry crop for Missouri	\$7,500	Nicola Hellmuth Ozark Forest Mushrooms, LLC
FNC12-867	Reducing Input Costs for Urban Aeroponic and Hydroponic Farming	\$6,992	Gibron Jones
FNC12-883	Rural Food Network: Growing and Keeping Food in Gasconade County, Missouri	\$22,405	Jennifer Miller River Front Produce Lee Miller River Front Produce Betty Nolte Nolte Hills Alan Nolte Nolte Hills Joseph Nolte Truck Patch Farm
FNC12-873	Scaling Up the Use of Trap Crops for Insect Control in Mechanized Squash Production	\$7,039	Rusty Lee
FNC12-845	Teaching Pastured Poultry Producers On-Farm Processing Best Management Practices for a Safer Product	\$4,877	Kevin Backes
FNC12-844	The Cheapest Way to Produce the Best Egg: Comparing how Different Supplemental Feeds Affect the Cost and Nutrient Density of Eggs from Heritage and Hybrid Pastured Hens	\$7,500	John Arbuckle Singing Prairie farm
FNC12-858	Vertical Oblong Wheel Planter System: Scale Up Yield, Increase Production, Increase Profits, Feed More in the Community, and Improve Worker Ergonomics	\$7,379.75	Lisa Firsick Y Knot Farm
FNC12-855	Whey as a Natural Insecticide	\$2,568.17	Debra DeWeese

Farmer

FNC10-795	Adding value to Missouri family farm by incorporating aquaculture into existing farm operation. Expanding prawn and trout into an existing hybrid bluegill operation in a one-year cycle	\$5,984.82	Joe Gaylord
FNC10-841	Demonstrating the Effectiveness of Sub Surface Drain Tile Installation as an Integrated Planting Practice to Improve Soil Conditions, Tree Establishment, and Productivity of Fruit Trees on Sloping Claypan Soils with Poor Internal Drainage	\$6,000	Barry Shortt Wind Ridge Farm
FNC10-811	Extending the vegetable growing season with low cost quick hoops	\$6,000	James Curtis Millsap Millsap Farm
FNC10-833	Field Grafting Improved Chestnut Cultivars to Increase Yield: An Operational Test in an Agroforestry System.	\$5,985	Dr.Stephen Shifley Shifley's Nut Farm
FNC10-813	Growing On and Under Asphalt	\$3,835.30	Robert Wright Conception Community Farm
FNC10-805	Indoor greenhouse trellising system adapted to outdoor use	\$5,899	Alan Nolte Nolte Hills
FNC10-843	Integrated Pest Management for Small Hive Beetles	\$5,631.74	John Nenninger Coordinator
FNC10-834	Phase 1: Truffle Orchard Establishment - The Burgundy Truffle as a new sustainable agroforestry crop for the Missouri Ozarks.	\$6,000	Nicola Hellmuth Ozark Forest Mushrooms, LLC
FNC10-817	Skip Row Corn Planting Techniques with Cover Crops for Sustainable Grazing	\$4,092	Harry Cope
FNC10-836	Using Chickens Guineas and Geese to Break the Life Cycle of the Curculio Beetle Through the Bird's Consumption of Dropped Fruit	\$5,980	John Baumann Baumann Farm
FNC10-810	Winter Raspberry Production in an Earth Contact Solar Greenhouse.	\$6,000	Sarah Burnett Pierce
FNC09-785	Educating from Seed To Market: An Organic Farming Apprenticeship Program in St. Louis, Missouri	\$18,000	Molly Rockamann
FNC09-781	Marketing Edamame Soybeans in Southeast Missouri	\$6,000	Monica Goodin
FNC09-791	Mentoring At Risk Students in Sustainable Fruit and Vegetable Production	\$6,000	Tami Fredickson Fredickson Farms

FNC09-784	Rainwater Capture and Reuse Using Gravity and Solar Power	\$5,712	Nancy Rasmussen
FNC08-741	Comparison of Coverings Over Permanent Raised Beds to Extend the Growing Season for Year Round Food Production	\$6,000	Dr.Linda Hezel Prairie Birthday Farm
FNC08-707	Educate alpaca producers on the benefits of grading and sorting fleeces to improve usability and return on investment.	\$5,996.50	April Gibson
FNC08-733	Increasing Diversity of Ozark Adapted Open Pollinated Seed Varieties	\$17,512.84	Daniel Roth Elixir Farm
FNC08-701	Peak Performance Splitting of Honeybee Hives	\$5,728	Grant Gillard
FNC08-728	Potential of Heritage Wheat Varieties for Use on Organic Farms: A Variety Trial and Market Survey	\$5,990.82	Carrie Read
FNC08-711	Winter Production of Pastured Broilers Using A Portable Hoophouse and Winter Annual Pastures	\$6,000	James Curtis Millsap Millsap Farm
FNC07-669	Demonstrating Organic Wild Crop Utilization and Certification as a Profitable Model for Enhancing Overall Farm Sustainability in the Missouri Ozarks	\$17,736	Penny Frazier
FNC07-678	Green Beings CSA Urban Farming Education and Outreach	\$5,975	Sabrina Hilton
FNC07-668	Growing and Marketing for a Winter CSA in Central Missouri	\$5,587.50	Jennifer Grabner
FNC07-651	Improving Forests through Better Logging: Why Rob the Bank You Own?	\$17,948	Peter Becker
FNC07-648	Improving Vineyard Grass and Weed Control through the Incorporation of Babydoll Sheep	\$3,736	Colleen Gerke
FNC07-682	Incredible Crop Yields From Small Urban Spaces	\$6,000	Nancy Gordon
FNC07-690	On-Farm Composting: Economics and Effects on Vegetable Produce Yield, Cut Flower Quality, and Soil Physical and Chemical Properties.	\$5,962	Dorothy Canote
FNC07-692	Planting and Growing Miscanthus Giganteus as a BioEnergy Crop in Missouri	\$5,995	Steve Flick
FNC07-659	Regeneration of Black Walnut to Sustain	\$5,170	Craig Koprivica

FNC07-680	Production on Forested, Deep-Alluvial Soils Along a Creek Sustainable Growing of Algae in High Tunnels for BioFuels	\$18,000	Ivan Stoilov
FNC07-649	Sustainable Production of Tibetan Goji Berry (<i>Lycium barbarum</i>) in Central Missouri	\$3,515	Carol Nabelek
FNC07-687	The River Hills Purebred Poultry Marketing Alliance Research Project	\$5,987	Michelle Wagstaff Dry Dock Farm Paul and Kelly Harter Back to the Farm Kelly and Phyllis Klober Nathan and Sarah Price
FNC07-656	Ultra High Stock Density Grazing	\$6,000	Eric Fuchs
FNC07-672	Urban Agricultural Youth Program	\$6,000	Ericka Wright, Deceased
FNC06-595	Accelerating the Acceptance of Alternative Foundation in Honeybee Frames	\$6,000	Grant Gillard
FNC06-599	Alpaca Farm and Fiber Day Camps and Workshops	\$2,992	Catherine Stickann Sycamore Creek Farm
FNC06-630	Bringing a Native Pecan Grove into Commercial Production	\$4,770	Catherine Tanksley
FNC06-598	Chestnut Trees: A Sustainable Alternative Land Use for Small Farms in Jefferson County	\$5,996	Grant Glatt
FNC06-600	Complete Distillation of Ethanol by Solar Concentrating Method	\$6,000	Daniel West
FNC06-614	Designing a Small-Scale Organic Agaricus Mushroom Production System to Provide Additional Income to Family Farms	\$6,000	Bob Semyck
FNC06-631	Developing a Public Domain Seed Bank for the Ozark Bioregion	\$17,095	Daniel Roth Elixir Farm
FNC06-627	Micro Solutions for Urban Agriculture	\$5,985	Trish Grim Chris Olliges New Roots Urban Farm
FNC06-636	Site-Specific Apple Insect Control Through a Web-Based Application	\$12,678	Dan Kelly
FNC06-622	Sustainable Year-Round Growing in High Tunnels Utilizing Waste Vegetable Oil in Conjunction with a Subterranean	\$6,000	Ivan Stoilov

	Geothermal and Solar Heating and Cooling System		
FNC05-574	A Feasibility Study for a Sheep and Goat Market	\$845	Jamie Root
FNC05-555	A Production and Marketing Assessment of Pacific White Shrimp in Rural Missouri	\$6,000	Bill Crites
FNC05-599	Alpaca Farm and Fiber Day Camps and Workshops	\$2,992	Catherine Stickann Sycamore Creek Farm
FNC05-588	Dwarf Fruit Tree Management on Marginal Soils	\$5,793	Curt Alldredge
FNC05-554	Growing Tomato, Pepper, Lettuce and Spinach in Summer Under Shade Netting in Kansas City, Missouri	\$4,095	John Kaiahua
FNC05-576	Heirloom Vegetable Production Strategies to Improve Family Farm Income	\$17,730	Walker Claridge
FNC05-570	Phase II: Ethanol from Waste Fruit	\$6,000	Daniel West
FNC05-578	Reducing and Eliminating the Reliance on Antibiotic Administration on Sustainable Hog Farms	\$16,000	Russell Kremer Missouri Farmers Union
FNC05-559	Sustainable Fig Farm Using Renewable Solar and Geothermal Energy	\$6,000	Ivan Stoilov
FNC05-557	Sustainable Solar Irrigation System	\$5,633	Dan Kuebler
FNC05-590	Transition of a Conventional Swine Operation to a Closed-system Freshwater Fish Operation	\$6,000	Ellis Dieckhoff
FNC05-573	Urban Agricultural Youth Program	\$5,965	Ericka Wright, Deceased
FNC04-527	Interplanting Ginseng with other Native Shade Plants for Fungal Control, Short and Long-Term Profitability	\$6,000	Heather O'Connor
FNC04-503	Potential Success of On-Farm Freeze-Dried Products	\$6,000	Earnie Bohner Persimmon Hill Farm
FNC04-534	U-Pick Blueberry Farm Pre-Production Partnership Income	\$6,000	Troy Hart
FNC03-465	Agroforestry Application, Non-Timber Forest Species Nursery Growers	\$15,256	Penny Frazier

	Cooperative		
FNC03-443	Crawfish Production in Reestablished Wetlands	\$6,000	Ben Hunter
FNC03-488	Developing Optimal Shiitake Mushroom Production in a Solar Greenhouse Utilizing Spent Shiitake Logs as a Sustainable Heat Source	\$5,950	Nicola Hellmuth Ozark Forest Mushrooms, LLC
FNC03-479	Diversity Increases Profits for Small Livestock Producers	\$6,000	Rick Hopkins
FNC03-464	Ethanol From Waste Fruit	\$6,000	Daniel West
FNC03-492	Fulfilling a Market Niche, Organically	\$17,000	Drew Kimmell Missouri Northern Pecan Growers LLC
FNC03-494	Market Development and Business Analysis for Chili Peppers	\$5,777	Jimmy Story
FNC03-475	Reaching Greater Sustainability Through Value Added Direct Marketing	\$6,000	Thomas Craft
FNC02-417	Comparing The Market Viability of Two Methods of Shiitake Mushroom Production (Seasonal vs. Year-Round Production on Logs)	\$6,000	Earnie Bohner Persimmon Hill Farm
FNC02-398	Increase Forage Production and Reduce Soil Erosion Through Rotational Grazing	\$5,340	Carroll Raspberry
FNC02-408	Maintaining Pond Integrity Through Limited Watering Access	\$1,819	Andy Grant
FNC02-397	Trapping Feral Honeybee Swarms	\$17,452	Grant Gillard
FNC02-395	Utilizing Multi Species Management Intensive Grazing for the Control of Non-Desirable Forbs.	\$1,432	Tim Kelley
FNC01-335	Adding Value, Capacity and Versatility to a Cottage Based Wool Processing Business	\$5,000	Carl Ahrens
FNC01-364	Cover Crops for Organically Grown Corn	\$5,000	Kyle Vickers
FNC01-339	Increasing Farm Production by Converting Fenceline Brush to Agroforestry	\$6,150	Darren Hoffman
FNC01-350	Maximize Returns on Marginal Ground Using Silvopastoral Management	\$2,694	Deanna Perera

	Practices with Chestnut Trees, Rare Breed Sheep and Guard Llamas		
FNC01-349	Natural Fiber Socks - A Value Added Product	\$5,000	Nancy Barnett
FNC01-352	The Benefits of Geotextile Fabric and Gravel in Cattle Lanes	\$3,250	Eric Bright
FNC00-305	Alternative Crop: Roadside Market of Mums and Fall Decoratives	\$5,000	Emma Sue Schuereberg
FNC00-333	Direct Marketing of Missouri Katahdin Lamb	\$7,989	Michael Seipel
FNC00-294	Growing Medicinal Mushrooms on Hardwood Stumps and Tops	\$4,638	Bruce Holland
FNC00-332	Pest Control Through Soil Fertility	\$2,490	T Arden Compton
FNC00-304	Strategically Thinning a Pecan Orchard and Use of the By-product for Sustainable Management	\$5,000	Molly FitzGerald
FNC99-287	'Scotco Sand' Agroforestry Demonstration	\$4,950	Frances Blissett
FNC99-262	Artificial Insemination of Queen Honeybees	\$5,000	Troy Hart
FNC99-281	Brambles and Sassafras Agroforestry	\$1,182	Brian Schweiss
FNC99-272	Comparing Various Organic Soil Amendments and Mulches	\$4,977	Karen Davis WildThang Farms
FNC99-265	Low-input Pasture Finishing of Lambs	\$7,310	David Coplen
FNC99-284	Overseeding Standing Soybeans with Wheat for Soil Cover and Grazing	\$5,000	Gary Linnenbringer
FNC98-215	Chinese Medicinal Herbs as Field Crops in the Ozarks	\$5,000	Lavinia McKinney
FNC98-238	Honeybee 'Varroa' Mite Control Research and Langstroth versus Top Bar Hive Economics	\$4,797	Robert Cessac
FNC98-244	Optimal Amount of Corn Gluten Meal for Weed Control and Soil Amendment	\$4,996	Denice Trimmer-May

	Qualities in Organic Production of Strawberries		
FNC98-211	Removal of Infected Fescue with Warm-season Grasses and Introduction of Legumes	\$1,738	Von Dole
FNC98-230	Results of Alternate Usage of Apistan Strips and Formic Acid for Mite Control in Honeybee Colonies	\$4,951	Kathy Hawthorne
FNC98-212	Will Rotational Cutting of Clover Increase the Quantity and Quality of Honey in a Specific Habitat?	\$3,347	James Harlow
FNC97-174	Conversion of a Marginal Row-crop and CRP Farm to a Seasonal Grass-based Dairy	\$5,000	Eric Bright
FNC96-161	Establishment of Rotational Grazing System Utilizing Warm and Cool Season Grasses	\$5,000	Terry Bohmont
FNC96-140	Extending the Grazing Season in a Rotational Grazing System for Dairy	\$4,160	Bill Hedges
FNC96-135	Growing Day-neutral Strawberries Using the Sunbelt/Polyacrylamide Gel System	\$3,126	Cheryl Compton
FNC96-132	Management-Intensive Grazing	\$5,000	Gary Stump
FNC95-103	Getting Started in Farming through Sustainable Agriculture	\$4,996	James Lummus
FNC95-115	Measuring the Rate of Benefit Accrual Due to Adoption of a Management Intensive Grazing System of a North-Missouri Hill Farm	\$4,494	Martin Turner
FNC95-092	On-farm Research to Raise Slaughter Beef on Pasture and Grain	\$3,442	Robert Cessac
FNC95-116	Sustainable Plum Curculio Control in Apple Orchards	\$3,242	Dan Kelly
FNC94-067	On-Farm Grazing Systems Research and Development of Intensive Grazing Software	\$4,993	Robert Cessac
FNC94-081	Pasture-Raised Poultry and Hogs	\$1,736	David Shafer Schafer Edinburg Farms Inc
FNC93-036	Model Watering System for Rotational Grazing	\$4,832	David Shafer Schafer Edinburg Farms Inc

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
GNC16-226	Effect of Cover and Green Manure Crops on Soil Health, Plant Health and Tuber Yield in Organic Sweet Potato Production	\$11,956	Waana Kaluwasha University of Missouri, Columbia
GNC14-184	The Use of Grape Products as a Natural Anthelmintic in Goats	\$9,995	Kimberly Cash Lincoln University
GNC12-155	A Comparative Profitability Assessment of Perennial Bioenergy Crops Grown in Missouri	\$9,999	Joseph Dolginow University of Missouri
GNC12-154	Soil Microbial Response to Seven Different Organic Transition Strategies	\$9,920	Kerry Clark University of Missouri
GNC10-145	A Survey of Relationships Among Rare Breeds of Pigs	\$6,619.25	Kizzi Roberts University of Missouri
GNC09-109	Development of an Automated Diesel Engine Test Stand for Evaluating Combustion and Exhaust Emission Characteristics of Nanoemulsion Biofuels	\$9,942	Dr.Ali Koc University of Missouri
GNC06-067	Efficacy of compost tea on Septoria leaf spot in field and greenhouse studies	\$10,000	Marlin Bates University of Missouri Extension
GNC05-046	Making the Case for Local Food Systems as Economic Development	\$9,900	Sarah Hultine University of Missouri Extension
GNC03-014	Enhancing the Sustainability of Producer-Owned Organizations	\$10,000	Elaine Krumpelman-Farmer University of Missouri-Columbia

ON-FARM RESEARCH/PARTNER GRANTS

Project #	Project Title	SARE support	Project Leaders
ONC16-014	Use of Irrigation on Pasture-Based Dairies to Determine Forage and Irrigation Type Efficiencies	\$29,821	Dr.Stacey Hamilton University of Missouri
ONC15-004	Improving Weight Gain in Goats Grazing Cover Crops Selected through Soil Health Samples	\$29,755	Susan Jaster Lincoln University Cooperative Extension-Innovative Small Farmers Outreach Program
ONC15-002	Incorporating Cereal Rye Into a No-Till Corn/Soybean Rotation For Erosion Reduction and Possible Grazing Use	\$14,345	Charles Ellis University of Missouri Extension

YOUTH EDUCATOR GRANTS

Project #	Project Title	SARE support	Project Leaders
YENC16-099	Fostering Good Stewardship of Ozarks Forests Through a Sustainable Forestry Field Trip	\$1,087	Amelia LaMair One Garden Inc.
YENC15-088	Engaging Youth in Sustainable Agriculture through Hands-on Experience	\$1,992	Amelia LaMair One Garden Inc.

YENC15-089	Junior Farm Crew	\$1,992	Rachel Levi EarthDance
YENC13-059	Creating Teen Ambassadors	\$2,000	Debbie Davis
YENC12-051	Farms are for Everyone - Farm Camp	\$1,980	Audrey Hollis GSM
YENC12-053	Organic Farm to Summer Camp Table: Opportunities for Youth on an Organic Farm	\$2,000	Rachel Levi EarthDance
YENC12-039	Rethinking Urban Agriculture: An Aquaponics Approach	\$2,000	Michael Dittrich Maplewood Richmond Heights School District
YENC12-038	Wild Eating: Bringing Food Production Back to Nature	\$1,895	Laura Worstell Scattering Fork Outdoor Center
YENC10-037	A Five Part Plan to Bring to Life a More Sustainable School Garden.	\$1,200	Sarah Holmes The Barstow School
YENC10-025	Sprouts, Soil, and Worms	\$2,000	William Polansky Columbia Center for Urban Agriculture Christopher Murakami Columbia Center for Urban Agriculture
YENC09-016	Grass Growth Stages and the Feed Value vs height of the Grass	\$2,000	Brad Irwin
YENC08-008	Benton Elementary School "Local Harvest of the Month"	\$1,370	Jim Ronald University of Missouri Extension
YENC88-002	More testing	\$2,000	Joan Benjamin NCR-SARE
YENC88-001	Testing	\$2,000	Joan Benjamin

YOUTH GRANTS

Project #	Project Title	SARE support	Project Leaders
YNC12-072	Making a Sustainable Feed for My Chickens	\$389	Miranda Yearington
YNC10-050	A Comparison of a Langstroth Hive vs. a Top Bar Hive in an Ozark Backyard	\$400	Ashley Painter
YNC10-051	Cross Breeding Meat Goat Options	\$400	Kristy Cox

YNC09-046	Exploring and Developing Markets for Dairy Goat Products	\$400	Abigail Fleetwood
YNC09-043	Intensive Grazing with Water Fowl around Raspberries (<i>Rubus idaeus</i> L.) to Reduce Weeds	\$400	Ashley Painter
YNC09-041	Maintaining Genetic Lines of Heritage Poultry	\$185	Sydney Cash
YNC09-038	Pasture Raised Turkeys and Other Poultry in a Low-Input Orchard	\$370	Williams King
YNC08-025	How Composting can be beneficial to the Environment and Your Garden!	\$350	Rebekah Callison
YNC08-001	Pasture Raised Heritage Breed Turkeys	\$400	Williams King
YNC08-021	Raised Beds Herbal Garden	\$400	Cody Lane
YNC08-020	Water Containment System for Gardening	\$394	Nathan Lane

**Total funding from the USDA SARE program to
Missouri
\$4,261,021**



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

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