

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 \$404 million to more than 8,798 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.



Sustainable Agriculture
Research & Education

www.sare.org

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

Nebraska

Project Highlight: *Replacing Summer Fallow with Grain-type Field Peas in Semiarid Cropping Systems*

As farmers in western Nebraska face higher cash rents and property taxes, many want a more profitable, sustainable alternative to fallow for crop rotation. Strahinja Stepanovic, a University of Nebraska Lincoln Extension educator, received a SARE grant to find suitable crops for the mix.

Some farmers in the High Plains have begun to use spring-planted pulse crops as an alternative to summer fallow. Pulse crops are legumes harvested for their beans and include chickpeas, lentils, and field peas. Replacing fallow with a pulse crop can help farmers cope with the weather- and market-related fluctuations by improving soil health and diversifying the crop mix. However, while many farmers in Nebraska are interested in pulse crops, they have been reluctant to adopt them due to a lack of local markets and research-based information on growing pulses in local conditions.

With support from SARE, University of Nebraska-Lincoln (UNL) Extension educator Strahinja Stepanovic organized a team of researchers and farmers to develop agronomic best practices for growing field peas and spur farmer adoption. Stepanovic notes that before 2013, farmers raised only 10,000–20,000 acres of field peas in the Nebraska Panhandle. Between 2014 and 2018, as farmers became familiar with peas through research and outreach efforts by Stepanovic and others, acreage grew to 70,000 and spread into central and eastern Nebraska. Production is slated to continue to expand.

Depending on the year, farmers may report gains of \$50 per acre. That is a significant improvement compared to \$40–\$90 per-acre expenses associated with spraying herbicides to control weeds in fallow. There are three pea processors in Nebraska and about eight seed companies, so getting good quality seed and marketing is much easier now.

For more information on this project, see sare.org/projects, and search for project number [ONC16-021](https://doi.org/10.32473/ONC16-021).

SARE in Nebraska

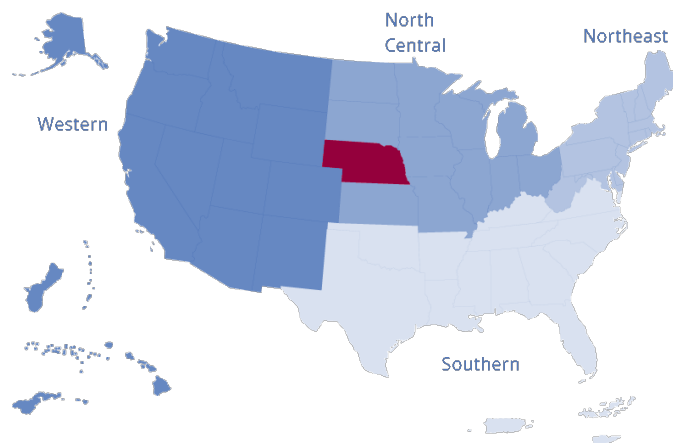
northcentral.sare.org/state-profiles/nebraska/

\$1,918,533
in total funding

35 grant project

(since 1988)

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



SARE in Nebraska

Grants awarded 2019-2024

Total awards: **35 grants**

- 11 Farmer/Rancher
- 6 Research and Education
- 1 Professional Development Program
- 8 On Farm Research/Partnership
- 8 Graduate Student
- 1 Youth Educator

Total funding: **\$1,918,533**

- \$183,040 Farmer/Rancher
- \$1,268,211 Research and Education
- \$23,700 Professional Development Program
- \$315,737 On Farm Research/Partnership
- \$121,972 Graduate Student
- \$5,873 Youth Educator

Find a complete list of projects on page 3.

Farmer and rancher impacts 2019-2024

SARE grantees have reported the following impacts from their projects:

7,253 farmers participated in a SARE-funded project

1,436 farmers reported a change in knowledge, awareness, skills or attitude

386 farmers changed a practice



Learn about local impacts at:
northcentral.sare.org/state-programs/nebraska/

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-profiles/nebraska/ to learn more.

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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.

For detailed information on SARE projects, go to
www.SARE.org



AGRICULTURE PROJECTS FUNDED IN NEBRASKA

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

Nebraska has been awarded \$7,897,947 grants to support 200 projects, including but not limited to, 45 research and/or education projects, 23 professional development projects and 78 producer-led projects. Nebraska has also received additional SARE support through multi-state projects.

RESEARCH AND EDUCATION GRANTS

| Project # | Project Title | SARE Support | Project Leaders |
|-----------|---|--------------|---|
| LNC23-483 | Meeting needs at the margins: Building networks to support "missed" land stewards | \$249,284 | Dr.Andrea Basche University of Nebraska-Lincoln |
| LNC23-484 | How much water can be saved, or cash crop yield can be gained by continuous use of cover crops in West Central Nebraska cropping systems? | \$249,828 | Dr.Nicolas Cafaro La Menza University of Nebraska-West Central Research Extension and Education Center |
| LNC22-461 | Marketing & Business Skills for Beginning, Refugee, & Immigrant Farmers in Lincoln, Nebraska | \$72,446 | Amy Gerdes Community Crops |
| LNC21-450 | Assessing tradeoffs of grassland management approaches with collaborative adaptive management | \$247,011 | Dr.Craig Allen Center for Resilience in Agricultural Working Landscapes |
| LNC21-451 | The Effects of Wheat Stem Characteristics and Wheat Stem Sawfly Infestation on Yield, Residue Longevity, Soil Water, and Soil Health | \$250,000 | Cody Creech Department of Agronomy & Horticulture, University of Nebraska- Lincoln |
| LNC19-418 | Cow/calf Production with Limited Perennial Grass: Capitalizing on Opportunities to Integrate Cropping and Cattle Systems | \$199,642 | Dr.Mary Drewnoski University of Nebraska Lincoln |
| LNC17-396 | Honey Bees on the Farm: Connecting Women Beekeepers and Women Farmers for Environmental and Economic Benefit | \$200,000 | Sandra Renner Center for Rural Affairs Wyatt Fraas Center for Rural Affairs |
| LNC16-385 | Rotational Benefits and Agronomic Evaluation of Field Pea in Cereal-based Cropping Systems | \$200,000 | Cody Creech Department of Agronomy & Horticulture, University of Nebraska- Lincoln |

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| LNC15-366 | Does Grazing or Harvesting of Cover Crops Affect Soils and Crop Production? Assessment in Different Soil Types and Management Scenarios | \$199,974 | Dr.Humberto Blanco University of Nebraska |
| LNC13-354 | Understanding the Impacts of Grazing and Baling Corn Residue on Subsequent Crop Yields Across Various Soil Types with Different Erosion Potential | \$199,059 | Dr.Rick Rasby University of Nebraska |
| LNC11-333 | Growing Farmers Training Program | \$164,676 | Ingrid Kirst Community CROPS |
| LNC07-286 | Immigrant Sustainable Farming Pilot Project | \$75,303 | Ingrid Kirst Community CROPS |
| LNC05-261 | High Value Enterprises for Small Spaces:Accelerating Commercialization and Integration of Woody Florals and Hybrid Hazelnuts in Sustainable Systems | \$149,997 | Scott Josiah Nebraska Forest Service Troy Pabst Nebraska Forest Service |
| LNC03-222 | Producer Driven Education to Improve Bio-Diversity in Semi-arid and High-Plains Cropping Systems | \$141,000 | Gary Hergert University of Nebraska-Lincoln David Baltensperger University of Nebraska |
| LNC03-223 | Providing Farmers the Technology Required to Efficiently Breed Corn Varieties Specifically Adapted to Alternative Cropping Systems | \$134,400 | W Ken Russell University of Nebraska |
| LNC03-235 | Winter Wheat Blends as a Potential Method of Enhancing Genetic Diversity, Pest Tolerance, and Yield Stability, thus reducing Farmer Risk | \$126,000 | Lenis Nelson University of Nebraska |
| LNC02-206 | Use of Livestock, Forage, and Labor Resources in Beef Production Systems to Reduce Production Costs, Increase Profitability, and Reduce Use of Fossil Fuels | \$92,789 | Richard Clark University of Nebraska-Lincoln Don Adams University of Nebraska, West Central Research and Extension Center |
| LNC01-185 | Evaluation of Impacts of SARE Research/Education, PDP, and Producer Grants | \$49,000 | Charles Francis Grain Place Foundation |

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| LNC01-197 | Evaluating Agroforestry Enterprise Opportunities for Specialty Forest Products: Decision Tools for Producers | \$99,308 | Scott Josiah Nebraska Forest Service |
| LNC00-165 | Nebraska Community Food Network | \$81,940 | Paul Rohrbaugh Nebraska Sustainable Agriculture Society |
| LNC99-148 | Agricultural Enterprise Development at Nebraska Indian Community College | \$94,207 | Schuyler Houser Nebraska Indian Community College |
| LNC99-156 | Effect of organic amendments (manure, compost, green manure) on soil quality and nutrient cycling in the North Central Region | \$52,360 | Jürg Blumenthal Univ. of Nebraska |
| LNC98-135 | Annual Forages for Integrated Crop and Livestock Systems | \$52,000 | Burt Weichenthal Panhandle Research and Extension Center, University of Nebraska |
| LNC98-144 | Alternative Systems for Livestock in Nebraska | \$98,200 | Wyatt Fraas Center for Rural Affairs |
| LNC97-104 | Farmer-Designed Research on the Use of Legumes in Sustainable Dryland Cropping Systems | \$91,000 | David Baltensperger University of Nebraska |
| LNC97-119 | Improving Sustainability of Cow-Calf Operations with Natural Forage Systems | \$81,000 | Don Adams University of Nebraska, West Central Research and Extension Center |
| LNC96-094 | Increasing Rural Women's Leadership in Sustainable Agriculture and Community Development | \$62,820 | Cris Carusi Nebraska Sustainable Ag Society |
| LNC96-096 | Biologically Intensive Pest Management of Greenbugs, Schizaphis Graminum (Rondani), on Grain Sorghum | \$64,800 | Z. B. Mayo Dept of Entomology, University of Nebraska |
| LNC95-081 | Nebraska Ag IMPACT Project | \$106,254 | Wyatt Fraas Center for Rural Affairs |
| LNC94-063 | Estimation of Reduced Machinery Ownership Costs in Diversified Cropping Systems | \$29,544 | Glenn Helmers Dept of Agricultural Economics, University of Nebraska |

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| LNC94-065 | Quality of Life Effects of Conventional, Transitional, and Sustainable Production Systems of Rural Communities and Family Farms in the Western Corn Belt | \$37,786 | John Allen University of Nebraska-Lincoln |
| LNC94-073 | Comparing Farming Systems with Different Strategies and Input Levels: A Research/Education Program with Replicated Micro-Farms | \$119,054 | Charles Francis Grain Place Foundation Richard Olson U. of NE-Lincoln, Ctr. for Sustainable Ag. Systems |
| LNC94-074 | Improving Sustainability of Cow/Calf Operations with Natural Forage Systems | \$82,000 | Don Adams University of Nebraska, West Central Research and Extension Center |
| LNC93-054 | Low-Input Beef Cattle Systems of Production | \$70,686 | Terry Klopfenstein University of Nebraska-Lincoln |
| LNC93-059 | Beginning Farmer Sustainable Agriculture Project | \$109,000 | Wyatt Fraas Center for Rural Affairs |
| LNC93-060 | Sustainable Agriculture Mentor Program | \$77,000 | Timothy Powell University of Nebraska |
| LNC92-043 | Regional Extension and Education Curricular Materials for Sustainable Agriculture: A Planning Conference | \$34,081 | Jim King University of Nebraska-Lincoln |
| LNC92-046 | Contour Strip Intercropping and Rotations to Reduce Soil Erosion and Energy Costs in Production Systems | \$90,000 | Charles Francis Grain Place Foundation |
| LNC91-014.3 | Beginning Farmer Sustainable Agriculture Project | \$91,700 | Larry Kreil Center for Rural Affairs |
| LNC90-014.2 | Beginning Farmer Sustainable Agriculture Project | \$29,868 | Ron Krupicka Center for Rural Affairs |
| LNC89-014.1 | Beginning Farmer Sustainable Agriculture Project | \$26,280 | Ron Krupicka Center for Rural Affairs |
| LNC89-019.1 | Low-Input Beef Cattle Systems of Production | \$76,000 | Terry Klopfenstein University of Nebraska-Lincoln |
| LNC88-004 | Sustainable Low-Input Agriculture: An Overview Videotape | \$16,800 | Charles Francis Grain Place Foundation |

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| LNC88-014 | On-Farm Experimentation with Practical Low-Cost Alternative for Including Livestock in Sustainable Farming Systems | \$16,848 | Ron Krupicka Center for Rural Affairs |
| LNC88-019 | Low-Input Beef Cattle Systems of Production | \$76,500 | Terry Klopfenstein University of Nebraska-Lincoln |

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

| Project # | Project Title | SARE Support | Project Leaders |
|------------------|---|---------------------|--|
| ENC23-228 | Beyond the Data: skills for moving sustainable agriculture knowledge to action. | \$23,700 | Barbara Rock University of Nebraska |
| ENC18-173 | Facilitating "Win-Win" Manure Utilization for Sustained Soil Health, Economic and Environmental Benefits | \$74,905 | Dr.Amy Schmidt University of Nebraska-Lincoln Rick Koelsch University of Nebraska |
| ENC12-133 | Indigenous Cultivar and Wildcrafting Curriculum | \$75,000 | Brigid Quinn |
| ENC11-126 | The Role of Drought Preparedness in Improving the Sustainability of Great Plains Ranches | \$56,366 | Tonya Haigh National Drought Mitigation Center |
| ENC10-116 | Sustainable Agriculture Learning Modules for High School Agriculture | \$54,918 | Shannon Moncure University of Nebraska-Lincoln Charles Francis Grain Place Foundation |
| ENC09-109 | Business Feasibility, Marketing, and On-line Direct Marketing; In-depth Training to Better Serve Sustainable Agriculture Business | \$73,984 | Cheryl Burkhart-Kriesel University of Nebraska-Lincoln |
| ENC09-113 | Organic Conservation Program Training for NRCS and Extension | \$75,000 | Kathie Starkweather Center for Rural Affairs |
| ENC08-103 | Technology Transfer for the Burgeoning Midwest Grape Industry | \$68,828 | Paul Read University of Nebraska |
| ENC07-096 | Storage and Utilization of Ethanol Co-Products By Small Cattle Operations | \$44,370 | Francis Hay University of Nebraska-Lincoln |
| ENC06-092 | Training for Organic Farming and Ranching in the Great Plains | \$75,000 | Charles Francis Grain Place Foundation Shannon Moncure University of Nebraska-Lincoln |

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| ENC04-076 | Reaping the Rewards of Our SARE investment: The Multi-State Farmer Linkage Program | \$24,754 | Elaine Cranford Nebraska Cooperative Development Center |
| ENP01-003 | Exploring Expanded Opportunity for Alternative Ag Ed Addendum to National Rollout of Ag Entrepreneur Curriculum Project | \$31,974 | John Allen University of Nebraska-Lincoln |
| ENC00-053 | Whole Farm Planning for Sustainable Systems | \$67,378 | Paul Swanson University of Nebraska |
| ENC00-054 | Specialty Forestry Products Professional Development | \$35,631 | Susan Wirth National Arbor Day Foundation |
| ENC99-039 | Building Sustainability through Ag Entrepreneurism | \$48,946 | Connie Hancock University of Nebraska, Panhandle Research Extension |
| ENC99-043 | Sustainable Agriculture Marketing Education for Nebraska | \$42,968 | Cris Carusi Nebraska Sustainable Ag Society |
| ENC97-001.2 | North Central Sustainable Agriculture Training Program | \$99,000 | Charles Francis Grain Place Foundation |
| ENC96-001.1 | North Central Sustainable Agriculture Training Program | \$99,000 | Charles Francis Grain Place Foundation |
| ENC96-015 | Strengthening the Whole-Farm Planning Process through Producer-Agent Partnerships and Professional Development | \$75,000 | Jill Wubben NSAS |
| ENP96-004 | Amaranth Production Manual for the Central United States: A Guide to Growing and Marketing | \$8,000 | David Baltensperger University of Nebraska |
| ENC95-006 | Increasing Trainer Literacy in Sustainable Agriculture | \$10,000 | Charles Francis Grain Place Foundation |
| ENP95-005 | Marketing - Business Plan Development Educational Curriculum | \$168,000 | John Allen University of Nebraska-Lincoln |
| ENC94-001 | North Central Sustainable Agriculture Training Program | \$311,070 | Charles Francis Grain Place Foundation |

FARMER/RANCHER GRANTS

| Project # | Project Title | SARE Support | Project Leaders |
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| FNC24-1425 | Summer forage crop options for North-Central Nebraska counties to improve production, forage quality, and soil health | \$29,978 | Roger Licking LickingAg |
| FNC23-1373 | Demonstrating the Feasibility of Producing Culturally Preferred Vegetable Crops in Underrepresented Urban Areas | \$14,690 | Aaron French City Sprouts |
| FNC23-1391 | Feeding Kernza® screenings to broiler chickens | \$7,655 | Malaina Schlautman Malaina Schlautman |
| FNC22-1317 | Incorporating a fodder system on a small-scale livestock farm to test the economic viability of reducing winter feed costs for hogs and cattle. | \$14,307 | William Alward Little Mountain Ranch and Garden LLC. |
| FNC22-1345 | Microalgae application as a soil amendment to improve soil health, crop production, and water management | \$29,586 | Alex Peterson RJPage CO |
| FNC22-1354 | Accelerating Soil Health and Farm Profitability using Biological Amendments | \$29,864 | Jeff Steffen Jeff Steffen |
| FNC21-1284 | The Effect of Management Intensive Grazing on Carrying Capacity in a Commercial Cow-Calf Operation Located in South Central Nebraska | \$8,997 | William Korinek BarWD Ranch Company |
| FNC20-1226 | Building a Custom Trailer to Increase Market Exposure, Profitability, and Educational Outreach for Urban Produce and Free-Range Egg Farmers | \$8,998 | David Keber Omaha's High Ground: A Healthy Market Garden |
| FNC20-1253 | Sustainable Silvopasture Hog Production Compared to Drylot System | \$9,000 | Raymond Hain Grain Place Foundation |
| FNC19-1156 | Planting a Profitable Pollinator Habitat with Native Nebraska Plants | \$2,965 | Mark Brannen Benson Bounty LLC |
| FNC19-1198 | Understanding effects of mealworm frass on downy mildew and Japanese beetles in hops production | \$27,000 | Kris Vrooman Jord Producers |
| FNC18-1151 | New American Urban Farm Program | \$15,000 | Brandy Gustoff OHB Scott Yahnke Omaha Home for Boys |

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| FNC17-1100 | Improving Nitrogen Use Efficiency in Sustainable Corn Production Through Use of Remote Sensors to Direct Site-specific Nitrogen Application | \$15,000 | Debra Stevens Stevens Farms |
| FNC16-1027 | Comparison of Biological Solution, Sea Minerals, or Combination of Both on Pasture Production | \$7,500 | Karen Bredthauer Straight Arrow Bison Ranch |
| FNC15-1012 | Improving Wetlands Using Holistic Grazing of Dairy Cattle and Low Impact Crossings | \$7,216 | Crystal Powers Darby Springs Farm |
| FNC15-993 | Spent Mushroom Substrate as Fertilizer | \$22,398 | William Gordon Nebraska Mushroom LLC |
| FNC14-963 | The Economic Analysis of Cover Crops, Soil Health, the role of Livestock and Impact on Moisture | \$22,378 | Paul Ackley farmer Mike McDonald Indigo Ridge Farm |
| FNC13-911 | The Viability of Small Scale Aquaponics in Urban and Rural Underserved Communities | \$2,915 | Gregory Fripp Whispering Roots |
| FNC10-802 | The Use of Tree Mulch to Increase Native Grassland Pasture Fertility | \$5,817 | David Hansen Oak View Beef |
| FNC08-736 | Diversification of Income through Land Diversification | \$5,979 | Bruce Switzer |
| FNC08-745 | Using Commercially Available Mycorrhizae Inoculant, Compost, or Mycorrhizae Inoculant and Compost when Transplanting Small Berry Bushes | \$6,000 | Cathy Hanus Katy's Garden |
| FNC07-647 | Small Scale Hydro-electric Power | \$6,000 | Victor Jensen |
| FNC07-653 | Cover Crop Water Usage and Affect on Yield in No-Till Dryland Cropping Systems | \$5,990 | Keith Berns Green Cover Seed |
| FNC07-676 | Evaluating TEFF Grass (Eragrostis teff) as a Value-Added Annual Crop for Hay and Forage to Mitigate Drought Impacts in Northwestern Nebraska. | \$6,000 | Keith Oetken |

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| FNC07-698 | Advantages and disadvantages on an organic corn crop from 25 tons of cattle manure per acre | \$6,000 | Robert Hrnchir |
| FNC06-594 | Windrow Grazing Annual Forages in the Fall and Winter to Reduce Harvesting and Feeding Expenses while Improving Nutrient Recycling | \$2,050 | Aaron Berger |
| FNC06-601 | Planting Aronia Berries on Highly Erodible Land to Add a New Enterprise | \$6,000 | Mark Nelson |
| FNC06-612 | Poppy's Pumpkin Patch- Agri-Tourism/Education Upgrade | \$5,994 | Connie Hintz |
| FNC06-629 | The Suitability of Flexible Fuel Biomass Heating for the Greenhouse Crop Environment and the Effect of Crop Profitability When Compared to Propane Heating | \$5,560 | Stacy Adams |
| FNC05-593 | A Unique System of Covering Drought Destroyed Pastures with Compost and Woodchips to Protect Light Soils and Newly Seeded Grasses | \$6,000 | James Sarchet |
| FNC04-508 | "Farm to Family Connection" Radio Project | \$11,357 | Curt Arens |
| FNC04-513 | Farmstead First- A Dairy Processing Facility | \$17,612 | Charuth van Beuzekom Loth ShadowBrook Farm |
| FNC04-521 | Urban Gardening Project | \$5,995 | Ingrid Kirst Community CROPS |
| FNC04-532 | Multi-Species Spurge Control | \$6,000 | Mary Ann Wellnitz |
| FNC04-545 | Developing Mentor Networks for Enhanced Outreach in the Range Livestock Industry | \$17,988 | O. Lynn Myers |
| FNC03-445 | Organic Grape Production | \$5,984 | Tim Nissen |

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| FNC03-460 | Evaluation of Establishing a Corndell Cross Breeding Flock to Produce and Hatch Broiler Chicks for the Pastured Poultry Producer in the Upper Midwest | \$5,750 | Jane Amerine |
| FNC02-407 | Yellow Dent Organic Hybrid Seed Corn | \$6,000 | Michael Jasa |
| FNC02-410 | Deuel County Lodgepole Creek Integrated Pest Management Group | \$13,000 | Jerome Cabela and Anita Nein, Resource Conservationist |
| FNC02-411 | Tiensvold Farms Cold Press Oil Project | \$5,480 | E Mark Tiensvold |
| FNC02-427 | Converting Confinement Nursery Housing To Swedish Deep Bedded System for Sustainable Pork Production | \$5,917 | Brian Bauer |
| FNC02-430 | Improving Warm Season Prairie Grass Seed Production by Reducing the Impact of the Bluestem Midge, Stenodiplosis watsii, Gagne | \$3,612 | David Stock |
| FNC01-355 | Management of Grasslands Using Prescribed Fire | \$5,200 | Teri Edeal |
| FNC01-368 | Operation and Management of the Nebraska Based Small Farms Cooperative | \$12,750 | Mark Keck |
| FNC01-376 | The Establishment of Nut and Timber Species with Varying Cultural Methods into Crop Acres (Conversion) Production of a Viable Economy with Less Chemical Inputs | \$8,865 | Justin Martin |
| FNC00-295 | Cleaning Bagging Facility for Better Marketing | \$5,000 | Robert Beguin |
| FNC00-297 | Livestock Watering Systems | \$15,000 | Steve Chatt |
| FNC00-314 | Producer Owned Woolen/Textile Mill | \$14,992 | Trish Lukassen |

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| FNC00-321 | Organization of the Nebraska Based Small Farms Cooperative | \$15,000 | Ray Miller |
| FNC99-258 | Heirloom Poultry: Cash and Genetic Conservation | \$4,996 | Julia Kleinschmit Rembert |
| FNC99-263 | Management-intensive Grazing Systems as an Alternative to Crop Production on Saline/Alkali Soils in the Central Platte Valley | \$5,000 | Brian Edeal |
| FNC99-279 | Country Edge Poultry and Produce | \$6,402 | Liz Sarno Prairie Chicks etc. L.L.C. |
| FNC99-285 | Sandhills Aquaculture Coop | \$15,000 | Tanya Storer Sandhills Yellow Perch |
| FNC98-207 | Biological Control of Pests | \$2,089 | David Kreutz |
| FNC98-217 | Alternative Nitrogen Sources for Organic Snap Bean Production | \$3,617 | John Ellis Libby Creek Farms |
| FNC97-200 | Kentucky Bluegrass Management and Variety Evaluation for Sustainable Seed Production in Western Nebraska | \$4,250 | Daniel Laursen |
| FNC96-133 | Cornstarch Amendment for Marginal Soils | \$1,297 | Richard Johnson |
| FNC95-094 | Pastured Poultry | \$5,000 | David Bosle |
| FNC95-096 | Nebraska CIP Research Project: Comparing Alternative Uses of Land Currently in the CRP Program | \$4,960 | Kenneth Widener |
| FNC95-106 | Native Elderberry and Plums as an Income Source from Waste Ground | \$4,584 | Nancy Jorgensen |
| FNC95-119 | Bio-control of Canada Thistle | \$1,518 | Dennis Demmel |

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| FNC95-123 | Establishing Legumes in Cool Season Grass Pastures | \$1,175 | Jon Immink |
| FNC95-126 | Tar Box Hollow Living Prairie | \$5,000 | Larry Mason |
| FNC94-059 | Establishment of Cool Season Pasture in Nebraska Sandhills | \$1,064 | Gregory Nollette Diamond Lazy J Ranch |
| FNC94-064A | Improving Native Wet Meadows | \$1,667 | James Keller |
| FNC94-064B | Improving Native Wet Meadows | \$1,666 | Larry O'Kief |
| FNC94-064C | Improving Native Wet Meadows | \$1,666 | Mike Ramm (Deceased) |
| FNC94-069 | CRP Research Project- Comparing Alternative uses of CRP Acres | \$5,000 | Kenneth Widener |
| FNC94-071 | Alternative Use of CRP Acres: Grass Fat Lambs | \$4,969 | Monty Mason |
| FNC94-074 | Continued Study of Controlling Leafy Spurge Utilizing Angora Goats | \$1,900 | Marvin Lange |
| FNC94-082 | Weed Management Methods for Strip Intercropping | \$1,125 | Bruce Krueger |
| FNC93-027 | Bio-Control of Leafy Spurge using Angora Goats | \$1,860 | Marvin Lange |
| FNC93-029 | Winter Rye as a Companion Crop in Establishment of Alfalfa | \$2,168 | Gary Young (Deceased) |
| FNC93-030 | Bio-Control of Plumeless Thistle | \$3,644 | Gary Young (Deceased) |
| FNC93-032 | Evaluating and Comparing Beef Cattle Grazing Systems | \$950 | Don Fox Don Fox Farm |

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| FNC92-009 | Converting Windrower into an Efficient, Affordable Compost Turner | \$5,000 | Kleinschmit William |
| FNC92-011 | Non-Chemical Fly Control in Beef and Dairy Herds | \$1,500 | Lowell Schroeder Lowell Schroeder Farm |
| FNC92-012 | Biological Weed Control and Weed use Research | \$5,000 | Robyn Rohlfing |

GRADUATE STUDENT GRANTS

| Project # | Project Title | SARE Support | Project Leaders |
|-----------|--|--------------|--|
| GNC24-393 | Enhancing Mineral Supplementation Decision-Making for Cow-Calf Producers | \$19,987 | Dr.Mary Drewnoski University of Nebraska Lincoln Jesse Fulton University of Nebraska - Lincoln |
| GNC24-397 | Smart Grazing: A Web-Based Solution for Pasture Management | \$20,000 | Yijie Xiong University of Nebraska-Lincoln Pedro Henrique Jota Fernandes University of Nebraska-Lincoln |
| GNC23-366 | Evaluating smooth sumac (Rhus glabra) management in rangelands through development of high-resolution GIS maps | \$15,000 | Dr.Sabrina E. Russo University of Nebraska-Lincoln Lillian Hoffart University of Nebraska - Lincoln |
| GNC23-382 | Investigating Wheat Stem Sawfly's Impact on Winter Wheat Residue, Soil Health, Soil-Water Storage, and Corn Yield in a Dryland Cropping System | \$14,850 | Cody Creech Department of Agronomy & Horticulture, University of Nebraska-Lincoln Vinicius Zuppa University of Nebraska-Lincoln |
| GNC21-331 | A socio-hydrological framework for assessing groundwater sustainability in an irrigated agricultural landscape. | \$14,820 | Dr.Ruopu Li Southern Illinois University at Carbondale Amina Naliaka Southern Illinois University |
| GNC20-301 | Increasing the effectiveness of pollinator conservation grasslands within the tallgrass prairie region | \$15,000 | Dr.Craig Allen University of Nebraska, Lincoln Dr.David Wedin University of Nebraska-Lincoln Katharine Hogan University of Nebraska-Lincoln |
| GNC20-307 | Rancher Preferences for Conservation Program in Nebraska's Grasslands | \$7,926 | Mark Burbach University of Nebraska-Lincoln Kyle Martens Center for Resilience in Agricultural Working Landscapes (University of Nebraska) |

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| GNC20-296 | Winter Hardy Small Cereal Cover Crops for Grazing and Silage in Nebraska | \$14,389 | Dr.Mary Drewnoski University of Nebraska Lincoln Kallie Calus University of Nebraska-Lincoln |
| GNC18-258 | Evaluating the Impact of Insecticides on Arthropods in Cover Crop to Corn Transitions. | \$11,716 | Dr.Justin McMechan, Ph.D., D.P.H. University of Nebraska Eastern Nebraska Research and Extension Center Gabriela Inveninato Carmona University of Nebraska - Lincoln |
| GNC18-271 | Double Cropping Field Peas with Cover Crops, Forages and Short Season Crops in Sub-Humid Climates | \$11,525 | Strahinja Stepanovic University of Nebraska-Lincoln Alexandre Tonon Rosa University of Nebraska-Lincoln |
| GNC17-237 | Integrating weed and nutrient management in hop (<i>Humulus lupulus</i>) production using organic amendments | \$11,990 | Sam Wortman University of Nebraska - Lincoln Allison Butterfield University of Nebraska - Lincoln |
| GNC17-242 | Evaluating nitrate toxicity potential in grazed cover crops | \$11,947 | Dr.Mary Drewnoski University of Nebraska - Lincoln Mary Lenz University of Nebraska - Lincoln |
| GNC17-250 | Assessing microbial communities of aqueous compost extracts and their effects on mulch and crop residue degradation | \$11,993 | Sam Wortman University of Nebraska - Lincoln Mitchell (Ben) Samuelson University of Nebraska - Lincoln |
| GNC16-220 | Impacts of Ionophore Supplementation and Corn Residue Management on Profitability of Grazing Rye with Growing Calves within an Integrated Production System | \$11,997 | Dr.Mary Drewnoski University of Nebraska - Lincoln Ashley Conway University of Nebraska-Lincoln |
| GNC16-234 | Role of Bats in Controlling Agricultural Pests | \$11,644 | Dr.Craig Allen University of Nebraska, Lincoln Michael Whitby Cooperative Fish and Wildlife Research Unit , School of Natural Resources, University of Nebraska - Lincoln |
| GNC14-195 | Collaborative Conservation in the Great Plains: Opportunities and Barriers for Cross-Property Private-lands Management | \$9,996 | Mark Burbach University of Nebraska-Lincoln Maggi Sliwinski University of Nebraska-Lincoln |
| GNC13-165 | Incorporating Soil Ecological Knowledge into Management of CRP Lands | \$10,000 | Dr.Craig Allen University of Nebraska, Lincoln Hannah Birge University of Nebraska-Lincoln |

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| GNC13-182 | Cover Crop Mixture Diversity and its Effects on Biomass Production, Weed Suppression, Soil Fertility, Soil Microbial Biomass and Community Structure, and Performance Stability | \$10,000 | Charles Francis Grain Place Foundation Dr.Rhae Drijber University of Nebraska-Lincoln Dr.Leon Higley University of Nebraska-Lincoln Dr.John Lindquist University of Nebraska-Lincoln Angela Florence University of Nebraska-Lincoln |
| GNC08-101 | Soil fertility and weed management in long-term conventional and organic crop rotations | \$10,000 | Charles Francis Grain Place Foundation Sam Wortman University of Nebraska - Lincoln |
| GNC06-058 | Effect of Supplemental Nutrition on Embryo Survival and Pregnancy Rate in Beef Heifers | \$10,000 | Rick Funston University of Nebraska Daniel Larson University of Nebraska |
| GNC03-012 | Land Ethics: Connecting Producers, Consumers, Land and Food | \$9,620 | Charles Francis Grain Place Foundation Mindi Schneider University of Nebraska |
| GNC02-001 | Motivations for Adoption of Sustainable Agriculture Practices, Education and Research: A Mixed-Methods Study | \$10,000 | Charles Francis Grain Place Foundation Shirley Trout University of Nebraska |
| GNC02-002 | Optimizing Use of Cool-Season Forage Species for Livestock production on Semi-Arid Rangeland | \$9,972 | Pat Reece William Whisenhunt University of Nebraska |
| GNC02-003 | Comparing Sustainability of Grazing in the Nebraska Sandhills: Which Regime is Best for Cattle and Wildlife | \$10,000 | Larkin Powell Silka Finkbeiner University of Nebraska |

ON FARM RESEARCH/PARTNERSHIP GRANTS

| Project # | Project Title | SARE Support | Project Leaders |
|-----------|---|--------------|--|
| ONC24-148 | Exploring the Potential of Cultural Cash Crops and Cover Crops in Specialty Crop Production | \$42,344 | Amy Gerdes Community Crops |
| ONC21-086 | Developing Winter Barley as an Alternative Crop to Capture an Emerging Market and Increase Diversification and Sustainability | \$40,000 | Cody Creech Department of Agronomy & Horticulture, University of Nebraska-Lincoln |
| ONC21-089 | Weed Suppression Strategies for Key Cultural Crops in the Yazidi Farming Community of the Midwest | \$39,706 | Amy Gerdes Community Crops |

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| ONC20-076 | Balancing harvest efficiency and economics of grazing fall forage cover crops. | \$40,000 | Erin Laborie Nebraska Extension |
| ONC20-077 | Insecticide use in cover crops: Understanding impacts at a field scale | \$39,906 | Dr. Justin McMechan, Ph.D., D.P.H. University of Nebraska Eastern Nebraska Research and Extension Center |
| ONC19-060 | Building the Legacy-Heartache and Triumphs from Transitioning Ranch Families | \$33,781 | Bethany Johnston Nebraska Grazing Lands Coalition |
| ONC19-054 | Incorporating Grain Sorghum in Semi-Arid Crop Rotations with Short Growing Seasons to Increase Resiliency of Cropping Systems | \$40,000 | Cody Creech Department of Agronomy & Horticulture, University of Nebraska- Lincoln |
| ONC19-052 | Partnering in Conservation: Engaging Women Farmland Owners and Their Tenants in Collaborative Conservation Planning | \$40,000 | Dr. Andrea Basche University of Nebraska-Lincoln |
| ONC18-045 | Exploring Malted Barley Production, Resiliency of Soils and Economic Sustainability in Nebraska | \$29,990 | Zachary Rigg Rigg Soil Solutions |
| ONC17-032 | Growing Together: Latino Farmer Learning Circles for Knowledge and Networks | \$30,000 | Kathie Starkweather Center for Rural Affairs Wyatt Fraas Center for Rural Affairs |
| ONC16-020 | Women Farmer and Landowner Learning Circles: Addressing Sustainability in a Changing Climate | \$30,000 | Sandra Renner Center for Rural Affairs |
| ONC16-021 | Replacing Summer Fallow with Grain-type Field Peas in Semiarid Cropping Systems: Sustainability and Agronomic Evaluation | \$29,999 | Strahinja Stepanovic University of Nebraska-Lincoln |

YOUTH EDUCATOR GRANTS

| Project # | Project Title | SARE Support | Project Leaders |
|------------|---|--------------|---|
| YENC24-210 | BEEing Aware: Learning about and Nurturing Local Honey Bees & Pollinators for more Sustainable Agriculture. | \$5,873 | John Boeder The Edgerton Explorit Center Mary Molliconi Edgerton Explorit Center |
| YENC17-108 | Farm Towers: Urban Agriculture Goes Vertical | \$1,999 | Ashton Bohling Auburn Public Schools |

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| YENC17-116 | Engaging Youth in Sustainable Farming and Benefits of Direct Marketing | \$2,000 | Skylar Falter University of Nebraska-Lincoln |
| YENC16-101 | Big Muddy Urban Farm and Gifford Park Youth Garden Program | \$2,000 | Brent Lubbert Big Muddy Urban Farm |
| YENC15-094 | The Big Garden Children - Youth Sustainable Agriculture Curriculum | \$2,000 | Cait Caughey Lutheran Family Services |
| YENC15-095 | Youth Mobile Library | \$1,409 | Dr.Megan McGuffey Community Crops Program, Family Service Lincoln Benjamin McShane-Jewell Community Crops |
| YENC13-068 | Community Crops Young Urban Farmers | \$1,958 | Jennie Sutton Community CROPS Ingrid Kirst Community CROPS Benjamin McShane-Jewell Community Crops |
| YENC12-056 | Healthy Farms Healthy Kids Nebraska | \$2,000 | William Powers Nebraska Sustainable Agriculture Society |
| YENC10-026 | Sustainable Ranch Resource Management | \$2,000 | Patrick Morgan Loup County Ag ED |
| YENC10-035 | Young Urban Farmers | \$2,000 | Ingrid Kirst Community CROPS Jennie Korgie Community CROPS Jennie Holt Community CROPS |
| YENC09-010 | "Sow What?" | \$980 | Jessica Jones |
| YENC09-019 | Healthy Farms, Healthy Kids! | \$2,000 | William Powers Nebraska Sustainable Agriculture Society |

YOUTH GRANTS

| Project # | Project Title | SARE Support | Project Leaders |
|------------------|---|---------------------|------------------------|
| YNC10-055 | Affects of Tillage Radish Cover Crops on Soybean Cropland | \$398 | William Cutler |
| YNC09-034 | C Bees | \$400 | Collen Melvin |

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| YNC08-006 | Growing Organic Strawberries with the Help of Fabric | \$140 | Libby Fulton |
| YNC08-010 | Free-Range Egg Production – Comparing Production Using Stationary Housing Versus Portable Pasture Housing | \$400 | Stephen Thiltges |
| YNC08-011 | Sustainable Production of Ducks on Rotational Pasture | \$250 | Elizabeth Thiltges |
| YNC08-026 | Pilot Community Supported Agriculture Project with Omaha Jewish Community | \$400 | Joe Goldberg |

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Nebraska
\$7,897,947**



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

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