



AGRICULTURE PROJECTS FUNDED IN SOUTH DAKOTA

by USDA's
Sustainable Agriculture Research and Education (SARE) Program
1988-2018

South Dakota has been awarded \$3,428,831 grants to support 103 projects, including but not limited to, 21 research and/or education projects, 7 professional development projects and 47 producer-led projects. South Dakota 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
LNC18-405	Using native rhizobia to create a drought-resilient field pea production system	\$199,813	Christopher Graham
LNC18-410	Dynamics of Dung Invertebrate Communities, and Their Contributions to Profitability in Regenerative Rangelands	\$200,000	Dr. Jonathan Lundgren, PhD Ecdysis Foundation
LNC15-371	Managing Grassland Vegetation with Winter-Patch Grazing: Potential Benefits to Livestock and Wildlife	\$199,294	Dr. Patricia Johnson South Dakota State University
LNC11-338	Mob Grazing Increases Efficiency and Profitability of Livestock Production	\$199,988	Dr. Alexander Smart South Dakota State University
LNC10-322	Development and Demonstration of a New Method of Physical Weed Control	\$174,603	Dr. Frank Forcella USDA-ARS
LNC10-326	Small Acreage Success: Connecting Natural Resource Professionals with a Non-Traditional Audience	\$95,319	Mindy Hubert South Dakota State University Dr. Roger Gates SDSU Extension
LNC09-311	South Dakota Beginning Farmer Training and Linking Project	\$25,000	Frank James Dakota Rural Action Tonya Haigh Dakota Rural Action
LNC07-278	Benefits of forage-based heifer development and post-AI supplementation.	\$149,026	Dr. George Perry South Dakota State University
LNC07-280	Post-Prairie Dog Rangeland Recovery	\$147,470	Dr. Patricia Johnson South Dakota State University

LNC07-277	Patch Burn-Grazing to Promote Environmental Sustainability	\$144,685	Dr.Alexander Smart South Dakota State University
LNC05-260	Effectiveness of thiamin in reducing the impacts of high-sulfate water	\$144,805	Dr.Patricia Johnson South Dakota State University
LNC03-224	From Food Stamps to Home Production	\$135,000	Ann Krush Center for Permaculture as a Native Science
LNC01-194	Profit by Planning: Helping Fresh Market Vegetable Growers Meet Financial Goals and Improve their Quality of Life	\$71,914	John Hendrickson CIAS, UW-Madison
LNC00-163	Rosebud Producers Develop WIC Markets	\$94,000	Ann Krush Center for Permaculture as a Native Science
LNC96-108	Restoration of Economic and Ecological Sustainability in Western Rangeland: A Handbook	\$62,800	W. Carter Johnson S. Dakota St. Univ., Dept of Hort., Forestry, Landscape, & Parks
LNC95-079	The Effect of Spring Seeded Annual Medic, Genus Medicago, on Weed Management and Soil Quality in Corn Production	\$73,000	Sharon Clay Plant Science Dept, South Dakota State University
LNC93-055	Economic and Environmental Implications of 1990 Farm Bill Sustainability Provisions in Water Quality Sensitive Areas	\$82,650	Thomas Dobbs South Dakota State University
LNC92-009.3	Agronomic and Whole-Farm Economic Analyses of Alternative Small Grain/Row Crop Production Systems for the Northern Plains	\$47,150	James Smolik South Dakota State University
LNC90-009.2	Agronomic and Whole-Farm Economic Analyses of Alternative Small Grain/Row Crop Production Systems for the Northern Plains	\$67,950	James Smolik South Dakota State University
LNC89-009.1	Agronomic and Economic Analyses of Alternative Small Grain/Row Crop Production Systems for the Northern Plains	\$60,000	James Smolik South Dakota State University
LNC88-009	Agronomic and Economic Analyses of Alternative Small Grain/Row Crop Production Systems for the Northern Plains	\$66,700	James Smolik South Dakota State University

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
ENC15-144	Learning About the Benefits of Integrated Crop-Livestock Systems on Soil Health	\$73,861	Julie Walker South Dakota State University
ENC07-095	Educational Curricula and Professional Development Training for Energy Efficient Production Practices.	\$49,947	Dr.David Clay South Dakota State University
ENC04-077	Building Knowledge of Sustainable Rangeland Management Using	\$16,719	Dr.Roger Gates SDSU Extension

	Information Technology – Northern Great Plains Partnership		
ENC03-074	Advanced Training in Sustainable Production Systems in the Northern Great Plains	\$63,556	Dr. Roger Gates SDSU Extension
ENC00-052	Training in Sustainable Livestock Production Systems on Rangelands of the Western Dakotas	\$80,642	Hubert Patterson South Dakota State University
ENC98-037.1	Outreach Education for Permaculture as Native Science	\$36,450	Ann Krush Center for Permaculture as a Native Science
ENC97-022	Outreach Education for Permaculture as Native Science	\$47,960	Ann Krush Center for Permaculture as a Native Science

FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
FNC18-1124	Rebel Earth Farms' Value-Added, Direct Marketing Lakota Herbal Tea High-tunnel Production	\$7,500	Patricia Hammond
FNC18-1131	Edible Net Wrap: A Possible Solution to Livestock Longevity	\$7,500	Amanda Konechne Chris and Amanda Konechne
FNC17-1079	Research of Methods to Improve the Processing of Hops (<i>Humulus lupulus</i> L.)	\$7,500	Yvonne Hines Hines Hops Farm
FNC16-1031	Controlling Cedar Tree Invasion by Rotational Grazing Goats through Pasture	\$6,793	Adam Carlson Hanson Homestead
FNC16-1036	Examination of the Productivity of Four Hops Varieties (<i>Humulus lupulus</i> L.) in Two Soil Types in Southwest South Dakota.	\$7,500	Yvonne Hines Hines Hops Farm
FNC14-942	Making Goats Milk Soap Business Sustainable by Implementing Standard Manufacturing and Testing Protocols	\$5,635	Penny Adler 444Farm
FNC14-947	Examining Water and Nutrient Dynamics of a Cover Crop in an Upper Great Plains Vineyard	\$7,467	Chris Graham Piedmont Valley Vineyard and Farm
FNC14-977	Reduced Pesticide Fly Control in Feedlots and Native Rangeland to Conserve Dung Beetles and Benefit Beef and Sheep Production	\$21,287	Linda Simmons producer / project coordinator Peter Bauman South Dakota State University
FNC12-892	A Hoop House in western South Dakota	\$5,290	Cathy Timmons Timmons Ranch
FNC12-846	The Producer-Initiated Development of a Goat Meat Market in the Black Hills Region of South Dakota	\$14,998.50	Tom Barnes Pleasant Valley Farm
FNC12-862	Growing, Processing and Selling	\$7,391	Steven Hauff

	Organic Grape Vinegar and Verjus		Three Heart Farm
FNC10-815	The economic value of multi-species grazing of cattle and goats utilizing goats for brush and weed control	\$18,000	Jim Deboer Kelly Frensko Penny Adler 444Farm
FNC09-764	Grazing Lambs to Manage Weeds and Grass in a Cold Climate Vineyard	\$2,291	Karlys WELLS
FNC08-699	Field Harvest of Grassfed Bison	\$17,802	Dan O'Brien
FNC08-746	Winter Greenhouse	\$1,922	Bill Powers Six Mile Creek Farm
FNC07-666	Effects of Eastern South Dakota Soils and Climate on Sustainable Production of Cold Hardy Grape Varieties	\$5,990	Dave Greenlee
FNC07-688	Standing Grain as Winter Grazing for Cattle	\$929.52	Jennifer Walker
FNC06-597	Monitoring Rangeland Health as a Means to Sustain the Rural Family Enterprise	\$9,600	Dan Anderson
FNC06-615	Utilizing Late Season Cover Crops in a No-Till System	\$5,937	Dan Forgey
FNC06-635	From Field to Store-Front – Designing On-Line Commerce for Wunder Flax	\$5,200	John Wunder
FNC05-566	Strengthening Grazing Success Through Genetics with Flax in an Organic Environment	\$5,995	Angela Jackson-Pridie
FNC05-575	Sustainable Energy for Sustainable Production	\$17,632	Shawn Burke
FNC04-542	LaCreek Growing Solutions	\$15,066	Gail Kocer
FNC04-543	South Dakota Grazing/Pasture Management Research and Tour	\$3,162	Phil Raml
FNC03-482	Cider Hill Farm Cheese Plant	\$5,997	Joan Williams Cider Hill Farm
FNC03-450	Growing Native Fruits of the North Central Region	\$6,000	Kim Graber
FNC03-471	South Dakota Grasslands Coalition Bus Tour to Grassland Grazing	\$5,000	Dan Rasmussen South Dakota Grasslands Coalition

Demonstration Sites

FNC02-412	Low Cost Precision Supplements to Add Profit to Cow-Calf Operations	\$5,153	Jim Faulstich Day Break Ranch
FNC02-437	Development of Self-Sustaining Farmer's Market in Clay County, South Dakota	\$4,032	Grace Freeman
FNC01-348	Management and Control of Candian Thistle in Limited Access and Field Locations	\$3,040	Jordan Dawn Enormous Brontosaurus Organic Farm
FNC01-351	Developing Added Value, Convenience Products From Free-Range Pastured Chickens	\$14,513	Tom Neuberger
FNC01-354	The Value of Value Added Products from Farm to Farm Market	\$4,858	Gail Dawn
FNC00-331	Weed Control	\$5,000	Duane Lammers
FNC00-327	Kiyaksa Timber Salvage and Restoration Project	\$2,546	Marcell Bull Bear
FNC99-248	Improve Grazing Profits by Marketing Cedar	\$5,000	Leroy Smith
FNC99-008	Interns for Garden Markets	\$8,000	Ann Krush
FNC99-009	Horse Spirit Youth Ranch	\$14,700	Victor Young
FNC98-004	Interns for Rosebud WIC Gardens	\$8,000	Ann Krush
FNC98-201	Wolf's Native Garden Project	\$4,160	Charlie Smoke
FNC98-216	The Expansion of the South Dakota Goosemobile Project to include Beef, Pork and Lamb	\$9,025	Tom Neuberger
FNC98-232	Swath-grazing: A Potential Alternative to Hay Feeding for Wintering Beef Cows	\$2,955	Mark Sip
FNC97-002	Gardening and Gathering on the Rosebud Reservation	\$8,000	Ann Krush
FNC97-185	Rotational Grazing in South Dakota – Dairy Cattle	\$3,448	Willard Maas

FNC97-001	Reestablishing Native Bison on Native Lands	\$4,923	Rick McLaughlin
FNC96-144	Finishing Beef Calves on Legume Pasture	\$2,504	raymond berry
FNC95-107	Alternative Strategies for Building Soil and Soil Erosion Control	\$5,000	Vincent Meyer
FNC94-070	Riparian/Range Restoration	\$4,923	Jeff Mortenson

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
GNC18-254	Predation, Herbivory, and Farmer Profitability and Sustainability in Response to Inter Seeded Covercrops in Standing Corn for Agroecosystem Diversification	\$11,906	Jonathan Lundgren South Dakota State University Michael Bredeson
GNC16-227	Interactive Effects of Cover Crops, Soil Health Practices, and Insect Community Dynamics on Corn Production	\$9,998	Jonathan Lundgren South Dakota State University Claire LaCanne, M.S. South Dakota State University
GNC15-200	Effect of Cover Crops on Beef Animal Performance and Soil Health	\$9,999	Dr.Derek Brake South Dakota State University Brooke Brunsvig South Dakota State University
GNC15-207	Contributions of Dung Arthropods to Sustainable Pest Management in Rangeland Systems of the Northern Great Plains	\$9,994	Jonathan Lundgren South Dakota State University Jacob Pecenka South Dakota State University
GNC14-185	Developing Guidelines for Sustainable Livestock Grazing in South Dakota Ponderosa Pine Forests: Balancing Economically Important Ecosystem Goods with Ecological Integrity	\$9,978	Dr.Roger Gates SDSU Extension Kurt Chowanski South Dakota State University West River Ag Center
GNC12-148	A Process-Based Nutrient Model for the Bedpack Manure of Confined Beef Systems	\$9,860	Dr.Erin Cortus South Dakota State University Ferouz Ayadi South Dakota State University
GNC10-118	Using Forage Quality Testing to Predict Nitrogen Replacement Value of Cover Crops	\$9,967	Peter Sexton Greg DeRynck South Dakota State University
GNC10-124	Interseeding Yellow-flowered Alfalfa into Crested Wheatgrass Stands for Multiple Uses and Benefits	\$9,060	Dr.Roger Gates SDSU Extension Lan Xu South Dakota State University Christopher Misar South Dakota State University
GNC10-130	Prairie Restoration: Effects of Burning, Herbicide, and Nitrogen Manipulation to Reduce Invasive Cool-Season Grasses	\$9,978	Dr.Sharon Clay SDSU Shauna Waughtel SDSU
GNC09-115	Restoring Native Tallgrass Prairie and	\$10,000	Dr.Eric MouseI

	Improving Profitability on Eastern South Dakota Grasslands with Intensive Early Stocking		South Dakota State University Kyle Schell South Dakota State University
GNC08-098	Floristic Quality of Native Tallgrass Pastures in Eastern South Dakota	\$10,000	Dr.Alexander Smart South Dakota State University Matthew Nelson South Dakota State University
GNC03-021	Effects of Prairie Dogs on Sustainability of Cattle Grazing in Mixed-Grass Prairie	\$10,000	Dr.Alexander Smart South Dakota State University Matthew Stoltenberg South Dakota State University

ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE support	Project Leaders
ONC17-026	Oat Variety Trial under Organic Management: Increasing Profitability for Organic Producers in the North Central Region	\$30,000	Dr.Melanie Caffe-Trembl South Dakota State University

YOUTH EDUCATOR GRANTS

Project #	Project Title	SARE support	Project Leaders
YENC15-084	Sustainable Agriculture Using All Five Senses	\$1,342	Linda Grace Freeman Irene-Wakonda Elementary School
YENC15-090	Producer-led, multi-topic, hands-on informational seminar to educate youth about sustainable and profitable meat goat production	\$1,000	Doug Pavel Butte Vista Farm
YENC12-041	Youth Livestock Skill-a-thon	\$1,993	Megan Nielson SDSU Extension
YENC08-004	Understanding the Historical Uses, Current Uses, and Importance of Native Plants on the Cheyenne River Sioux Reservation	\$2,000	Justine Kougl South Dakota State University Cooperative Extension
YENC08-002	Native American Roots & Shoots Farmers, Gardeners, & Gatherers Market & Educational Garden	\$2,000	Jason Schoch Jane Goodall's Roots & Shoots Native Americas Proje
YENC08-003	Cover Crops – Grazing Alternatives Research Project	\$2,000	Steve Sutera Bon Homme 4-H Clubs & Bon Homme FFA Chapter

YOUTH GRANTS

Project #	Project Title	SARE support	Project Leaders
YNC12-067	Cost Benefit Comparison of Raising Araucana Chicks into Egg Production Hens	\$400	Sierra Dennison
YNC09-037	Success of Late Planted Cover Crops	\$349.99	Lyndsey Effling
YNC09-040	Interseeding Clovers into Cool- Season Pasture	\$400	Austin Effling
YNC09-048	Beekeeping	\$400	Gretchen Rops

YNC08-005	Continuing Egg Production – A More Natural Way	\$400	Michael Anderson
YNC08-017	“Putting Poultry Out to Pasture”	\$130	Rex Schlicht
YNC08-018	Roaming & Raising Rabbits	\$100	Spens Schlicht
YNC08-023	Wild Berry Opportunities	\$400	Ashlee Stepp

PDP STATE PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
NCSD17-001	South Dakota Annual State Report	\$109,709	Dr.Alexander Smart South Dakota State University

**Total funding from the USDA SARE program to
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\$3,428,831**



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

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