



# AGRICULTURE PROJECTS FUNDED IN WYOMING

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

Wyoming has been awarded \$2,801,066 grants to support 51 projects, including but not limited to, 15 research and/or education projects, 5 professional development projects and 18 producer-led projects. Wyoming has also received additional SARE support through multi-state projects.

State Sustainable Agriculture Coordinator:

Caitlin Youngquist  
University of Wyoming  
[cyoungqu@uwyo.edu](mailto:cyoungqu@uwyo.edu)

## RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">SW18-021</a>	Integrating livestock and cover crops into irrigated crop rotations	\$249,954	Dr. Jay Norton University of Wyoming
<a href="#">SW10-073</a>	Prescribed Grazing to Sustain Livestock Production, Soil Quality, and Diversity in Rangeland Ecosystems	\$197,268	Dr. Kenneth Tate University of California Davis
<a href="#">SW07-049</a>	Evaluation of Camelina sativa as an alternative seed crop and feedstock for biofuel and developing replacement heifers.	\$155,000	Dr. Bret Hess University of Wyoming
<a href="#">SW05-117</a>	Integrated Crop and Livestock Systems: Dryland Crop Rotations to Improve Economic and Ecological Sustainability in the Central High Plains	\$212,928	Dr. Steve Paisley University of Wyoming
<a href="#">SW04-051</a>	Record Management Computer Database for Wyoming Cow-Calf Producers	\$18,563	Dallas Mount University of Wyoming
<a href="#">SW03-008</a>	Annual Legume-Based Systems for Sustainable Integrated Crop/Livestock Enterprise Diversification on the Central High Plains	\$200,000	James Krall University of Wyoming
<a href="#">SW02-011</a>	Economic Impacts of Undernutrition on Fetal Programming during Early Gestation in the Cow: Effects on Growth, Development and Carcass Characteristics of Steers and Reproductive Efficiency of Heifers	\$23,013.50	Stephen Ford University of Wyoming
<a href="#">SW98-071</a>	Annual Legumes in Fallow as an Integrated Crop/Livestock Alternative in the Central Great Plains.	\$173,979	James Krall University of Wyoming
<a href="#">SW97-018</a>	Integrating nemade-resistant crops into sugar beet rotations	\$113,184	David Koch University of Wyoming
<a href="#">SW96-029</a>	Potential of a Corn/Annual Medic Intercropping System for Weed Control, Reduced Soil Erosion and Improved Forage Production	\$95,100	James Krall University of Wyoming
<a href="#">SW96-010</a>	Western Integrated Ranch/Farm Education	\$36,326	John Hewlett University of Wyoming, Department of Agricultural Economics
<a href="#">SW95-007</a>	Sustainable Rangeland Based Beef Cattle Production Systems	\$155,260	Michael A. Smith University of Wyoming
<a href="#">SW94-006</a>	Legume Cover Crops in Fallow as an Integrated Crop/Livestock Alternative in the Northern and Central Great Plains	\$160,000	James Krall University of Wyoming
<a href="#">SW94-034</a>	Western Integrated Ranch/Farm Education	\$90,000	John Hewlett University of Wyoming, Department of Agricultural Economics
<a href="#">LW91-022</a>	Brassica Utilization in Sugar Beet Rotations for Biological Control of Cyst Nematode	\$47,000	David Koch University of Wyoming

## PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">EW10-012</a>	Equipping Extension Educators to Address Producer Needs in Energy Education	\$99,596	Sarah Hamlen MSU Extension

<a href="#">EW10-020</a>	Ranch Sustainability Assessment: Economic, Ecological, & Social Indicator Monitoring	\$85,000	Dr. John Tanaka University of Wyoming
<a href="#">EW07-016</a>	Educator Training for the Wyoming Cow-Calf Record Management System	\$9,500	Dallas Mount University of Wyoming
<a href="#">EW00-024</a>	Sustaining western rural landscapes, lifestyles, and livelihoods through agricultural enterprise diversification: a collaborative partnership.	\$80,880	Boyd Byelich USDA-NRCS
<a href="#">EW94-018</a>	Extension Sustainable Agriculture Training in Colorado and Wyoming	\$75,000	Joe Hiller University of Wyoming, Cooperative Extension Service

#### FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">FW09-319</a>	Enhancing Rural Agricultural Family and Community Development in Wyoming Through Sustainable Biofuel Crop Production	\$49,873	Donn Randall Wyoming Business Council
<a href="#">FW08-303</a>	Utilizing Soil Moisture and Microclimate Monitoring Technology to Reduce Water and Energy Needs and Improve Sugar Beet Crop Production for Producers in the Big Horn Basin Region of Wyoming	\$29,923	Caryn Agee Washakie County Conservation District
<a href="#">FW08-307</a>	Nitrogen Use Efficiency of Cool-Season Perennial Forage Grasses Planted With and Without Alfalfa Under Irrigation for Hay Production	\$14,999	Dr. Blaine Horn University of Wyoming
<a href="#">FW06-021</a>	Management of Iron Deficiency in Bean with Annual Ryegrass Interplantings	\$9,505	Mike Ridenour
<a href="#">FW05-035</a>	Brush Mower/Mixed Mountain Shrub Enhancement	\$19,370	Myrtle and Clyde McColloch JY Ranch
<a href="#">FW04-030</a>	Progeny Evaluation to Determine an Economically Based Index for Sire Selection	\$7,500	Sandra Snider
<a href="#">FW04-035</a>	Tree Windbreak	\$7,500	Betty Rodriguez
<a href="#">FW03-004</a>	Wind and Water	\$6,000	Betty Rodriguez
<a href="#">FW02-210</a>	Platte County Farmer's Market	\$2,434	Susan Schamel
<a href="#">FW02-207</a>	BOS Grass Grown Premium Beef Marketing	\$7,495	James Millett
<a href="#">FW01-047</a>	Prevention of High Altitude Disease Losses in Beef Cattle Utilizing PAP Test Scores, EPDs, and Gene-Mapping Techniques	\$7,500	Jon Robinett Diamond G. Cattle Co. LLC
<a href="#">FW00-093</a>	Pastured Poultry Production with Research on Sustainability of Grazing Lands	\$1,477	Joleen and Greg Marquardt
<a href="#">FW00-278</a>	Internet Marketing of Organically Grown Wyoming Gourmet Garlic	\$3,930	Steve Shesler
<a href="#">FW99-060</a>	Improving Ranch Unit Stability and Sustainability through Grazing Irrigated Alfalfa	\$3,500	Rick March
<a href="#">FW96-023</a>	Tall Stature Grasses for Winter Grazing and Spring Calving	\$2,800	Matt Weber
<a href="#">FW95-045</a>	Integrated Management to Improve Rangeland Health and Reduce Noxious Weeds	\$5,000	Ogden Driskell Bearlodge Cattle Company
<a href="#">FW95-067</a>	Initiation of Integrated Management	\$5,000	Tom Bruce
<a href="#">FW95-076</a>	Flitner Wetland Habitat Enhancement Project	\$5,000	Mary & Stan Flitner

#### GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
-----------	---------------	--------------	-----------------

<a href="#">GW18-170</a>	Evaluation of Pulse Crops for Dryland Production	\$25,000	Dr.Carrie Eberle University of Wyoming Amberle Filley University of Wyoming
<a href="#">GW18-025</a>	The Critical Role of Soil Microbiota to Sustainable Agriculture: Quantifying short-term microbial and vegetation feedback to intensive grazing.	\$24,184	Linda Van Diepen University of Wyoming Emily Bean University of Wyoming
<a href="#">GW17-059</a>	Cattle Diets and Performance: Enhancing What We Know with Advanced Plant DNA Technology	\$24,970	John Derek Scasta University of Wyoming Tamarah Plechaty University of Wyoming, Laramie & Unites States Department of Agriculture - Agricultural Research Service, Cheyenne, WY
<a href="#">GW16-038</a>	Increasing sustainable agriculture through enhanced diagnostics with Brucella infection	\$24,818	Dr.Brant Schumaker, DVM, MPVM, PhD University of Wyoming Noah Hull, MPH University of Wyoming
<a href="#">GW16-068</a>	Conservation biological control of alfalfa weevil in Wyoming	\$7,280	Makenzie Benander University of Wyoming
<a href="#">GW15-020</a>	Economic and Environmental Sustainability of Irrigated Grass-Legume Mixtures	\$24,998	Dr.Anowar Islam University of Wyoming Albert Adjesiwor University of Wyoming
<a href="#">GW14-023</a>	Improving Feed Efficiency in Sheep Through Rumen Manipulation and Producer Adoption	\$25,000	Dr.Kristi Cammack University of Wyoming Melinda Ellison University of Idaho
<a href="#">GW11-007</a>	Impacts of age on residual feed intake and its effect on reproductive parameters and profitability in ewes	\$24,990	Dr.Kristi Cammack University of Wyoming Dr.Rebecca Cockrum Colorado State University
<a href="#">GW08-016</a>	Potential of Managing Iron and Zinc Deficiency in Dry Beans with Interplantings of Annual Ryegrass and Increased Bean Density	\$18,928	Andrew Kniss University of Wyoming Emmanuel Omondi University of Wyoming - Dept 3354

**ON FARM RESEARCH/PARTNERSHIP GRANTS**

Project #	Project Title	SARE support	Project Leaders
<a href="#">OW10-313</a>	Residual Feed Intake – Producer Adoption and Genetic Selection Potential	\$47,292	Dr.Kristi Cammack University of Wyoming

**PDP STATE PROGRAM GRANTS**

Project #	Project Title	SARE support	Project Leaders
<a href="#">WSP17-016</a>	2018 University of Wyoming PDP Project	\$37,990	Dr.Caitlin Youngquist University of Wyoming

**ENHANCED STATE GRANTS GRANTS**

Project #	Project Title	SARE support	Project Leaders
<a href="#">MW18-004</a>	Establishing the Wyoming Rangeland Management Institute	\$24,970	Dr.Caitlin Youngquist University of Wyoming
<a href="#">MW16-003</a>	Pesticide Education for Urban and Small Acreage Users	\$24,288	Dr.Caitlin Youngquist University of Wyoming Extension

**Total funding from the USDA SARE program to Wyoming  
\$2,801,066**



For further information on projects, contact Western SARE at (435) 797-2257 or [wsare@usu.edu](mailto:wsare@usu.edu).

Sustainable Agriculture Research and Education (SARE) is funded by USDA's National Institute of Food and Agriculture (NIFA).