



AGRICULTURE PROJECTS FUNDED IN WYOMING

by USDA's
Sustainable Agriculture Research and Education (SARE) Program
1988-2019

Wyoming has been awarded \$2,908,383 grants to support 54 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.

RESEARCH AND EDUCATION GRANTS

| Project # | Project Title | SARE support | Project Leaders |
|--------------------------|--|--------------|---|
| SW18-021 | Integrating livestock and cover crops into irrigated crop rotations | \$249,954 | Dr.Jay Norton University of Wyoming |
| SW10-073 | Prescribed Grazing to Sustain Livestock Production, Soil Quality, and Diversity in Rangeland Ecosystems | \$197,268 | Dr.Kenneth Tate University of California Davis |
| SW07-049 | 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 |
| SW05-117 | 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 |
| SW04-051 | Record Management Computer Database for Wyoming Cow-Calf Producers | \$18,563 | Dallas Mount University of Wyoming |
| SW03-008 | Annual Legume-Based Systems for Sustainable Integrated Crop/Livestock Enterprise Diversification on the Central High Plains | \$200,000 | James Krall University of Wyoming |
| SW02-011 | 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 |
| SW98-071 | Annual Legumes in Fallow as an Integrated Crop/Livestock Alternative in the Central Great Plains. | \$173,979 | James Krall University of Wyoming |
| SW97-018 | Integrating nemade-resistant crops into sugar beet rotations | \$113,184 | David Koch University of Wyoming |
| SW96-010 | Western Integrated Ranch/Farm Education | \$36,326 | John Hewlett University of Wyoming, Department of Agricultural Economics |

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| SW96-029 | 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 |
| SW95-007 | Sustainable Rangeland Based Beef Cattle Production Systems | \$155,260 | Michael A. Smith University of Wyoming |
| SW94-006 | 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 |
| SW94-034 | Western Integrated Ranch/Farm Education | \$90,000 | John Hewlett University of Wyoming, Department of Agricultural Economics |
| LW91-022 | 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 |
|--------------------------|--|--------------|--|
| EW10-012 | Equipping Extension Educators to Address Producer Needs in Energy Education | \$99,596 | Sarah Hamlen MSU Extension |
| EW10-020 | Ranch Sustainability Assessment: Economic, Ecological, & Social Indicator Monitoring | \$85,000 | Dr. John Tanaka University of Wyoming |
| EW07-016 | Educator Training for the Wyoming Cow-Calf Record Management System | \$9,500 | Dallas Mount University of Wyoming |
| EW00-024 | Sustaining western rural landscapes, lifestyles, and livelihoods through agricultural enterprise diversification: a collaborative partnership. | \$80,880 | Boyd Byelich USDA-NRCS |
| EW94-018 | 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 |
|--------------------------|--|--------------|---|
| FW09-319 | Enhancing Rural Agricultural Family and Community Development in Wyoming Through Sustainable Biofuel Crop Production | \$49,873 | Donn Randall Wyoming Business Council |
| FW08-303 | 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 |
| FW08-307 | 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 |
| FW06-021 | Management of Iron Deficiency in Bean with Annual Ryegrass Interplantings | \$9,505 | Mike Ridenour |

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| FW05-035 | Brush Mower/Mixed Mountain Shrub Enhancement | \$19,370 | Myrtle and Clyde McColloch JY Ranch |
| FW04-035 | Tree Windbreak | \$7,500 | Betty Rodriguez |
| FW04-030 | Progeny Evaluation to Determine an Economically Based Index for Sire Selection | \$7,500 | Sandra Snider |
| FW03-004 | Wind and Water | \$6,000 | Betty Rodriguez |
| FW02-207 | BOS Grass Grown Premium Beef Marketing | \$7,495 | James Millett |
| FW02-210 | Platte County Farmer's Market | \$2,434 | Susan Schamel |
| FW01-047 | 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 |
| FW00-093 | Pastured Poultry Production with Research on Sustainability of Grazing Lands | \$1,477 | Joleen and Greg Marquardt |
| FW00-278 | Internet Marketing of Organically Grown Wyoming Gourmet Garlic | \$3,930 | Steve Shesler |
| FW99-060 | Improving Ranch Unit Stability and Sustainability through Grazing Irrigated Alfalfa | \$3,500 | Rick March |
| FW96-023 | Tall Stature Grasses for Winter Grazing and Spring Calving | \$2,800 | Matt Weber |
| FW95-076 | Flitner Wetland Habitat Enhancement Project | \$5,000 | Mary & Stan Flitner |
| FW95-045 | Integrated Management to Improve Rangeland Health and Reduce Noxious Weeds | \$5,000 | Ogden Driskell Bearlodge Cattle Company |
| FW95-067 | Initiation of Integrated Management | \$5,000 | Tom Bruce |

GRADUATE STUDENT GRANTS

| Project # | Project Title | SARE support | Project Leaders |
|--------------------------|---|--------------|---|
| GW18-025 | 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 |

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| | | | University of Wyoming, The Pennsylvania State University |
| GW18-170 | Evaluation of Pulse Crops for Dryland Production | \$25,000 | Dr.Carrie Eberle University of Wyoming Amberle Filley University of Wyoming |
| GW17-059 | 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 |
| GW16-068 | Conservation biological control of alfalfa weevil in Wyoming | \$7,280 | Makenzie Benander University of Wyoming |
| GW16-038 | 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 |
| GW15-020 | Economic and Environmental Sustainability of Irrigated Grass-Legume Mixtures | \$24,998 | Dr.Anowar Islam University of Wyoming Albert Adjesiwor University of Wyoming |
| GW14-023 | Improving Feed Efficiency in Sheep Through Rumen Manipulation and Producer Adoption | \$25,000 | Dr.Kristi Cammack University of Wyoming Melinda Ellison University of Idaho |
| GW11-007 | 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 |
| GW08-016 | 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 |
|--------------------------|--|--------------|--|
| OW19-340 | Growing and Marketing Ancient Grains in Wyoming | \$49,995 | Dr.Caitlin Youngquist University of Wyoming |
| OW10-313 | 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 |
|---------------------------|----------------------------------|--------------|--|
| WSP19-020 | Wyoming State WSARE Program Plan | \$28,686 | Dr.Caitlin Youngquist University of Wyoming |
| WSP18-017 | Wyoming 2018-2020 PDP project | \$28,636 | Dr.Caitlin Youngquist University of Wyoming |
| WSP17-016 | 2018 University of Wyoming PDP | \$37,990 | Dr.Caitlin Youngquist |

ENHANCED STATE GRANTS GRANTS

| Project # | Project Title | SARE support | Project Leaders |
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| <u>MW18-004</u> | Establishing the Wyoming Rangeland Management Institute | \$24,970 | Dr.Caitlin Youngquist University of Wyoming |
| <u>MW16-003</u> | 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
\$2,908,383**



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

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