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 $354 million to more than 8,043 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.

SARE: Advancing the Frontier of Sustainable Agriculture in Colorado

Project Highlight: Dryland Cropping Intensification Shows Benefits

In the Great Plains region of Colorado, a scarce supply of water is the chief limiting factor in dryland cropping yields. This concern over limited water availability prompts many farmers in the area to adopt a winter wheat-fallow rotation, yet this approach worsens soil productivity over the long term.

Intensifying production and using no-till could actually improve yields and profitability by building up soil health and improving moisture retention. Using a SARE grant, Colorado State University graduate student Steven Rosenzweig set out to both quantify the benefits of reducing fallow frequency and understand the barriers to adoption. He compared different dryland rotation intensities and found that reducing fallow improved soil health, which ultimately allowed farmers to improve grain production with a similar amount of fertilizer.

He also conducted in-depth interviews with 30 farmers, and identified risk, profitability and crop insurance policy as top perceived barriers to reducing fallow frequency. He also identified strategies for helping farmers overcome the barriers, such as changing the way agronomic researchers approach their work to be more inclusive of long-term viewpoints and profitability. The identified benefits, barriers and strategies for change were widely disseminated, including a website, blog and an upcoming film.

For more information on this project, see sare.org/projects, and search for project number GW16-020.

SARE in Colorado

western.sare.org/sare-in-your-state/colorado

$5,614,966 in total funding

109 grant projects

(since 1988)

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

Total awards: **109 grants**

- 19 Research and Education
- 24 Professional Development Program
- 54 Farmer/Rancher
- 5 Graduate Student
- 7 On Farm Research/Partnership

Total funding: **$5,614,966**

- $3,117,090 Research and Education
- $1,471,913 Professional Development Program
- $550,895 Farmer/Rancher
- $123,992 Graduate Student
- $351,076 On Farm Research/Partnership

Find a complete list of projects on page 3.

SARE's Impact

- **53 percent** of producers report using a new production technique after reading a SARE publication.
- **79 percent** of producers said they improved soil quality through their SARE project.
- **64 percent** of producers said their SARE project helped them achieve higher sales.

Learn about local impacts at: [western.sare.org/sare-in-your-state/colorado](http://western.sare.org/sare-in-your-state/colorado)

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 [western.sare.org/state-pages/colorado](http://western.sare.org/state-pages/colorado) to learn more.

Adrian Card  
Colorado State University Extension  
(303) 678-6383  
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Ioannis Minas  
Colorado State University  
(970) 491-7216  
ioannis.minas@colostate.edu

SARE is funded by the USDA’s National Institute of Food and Agriculture (NIFA).

For detailed information on SARE projects, go to [www.SARE.org](http://www.SARE.org)

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.
AGRICULTURE PROJECTS FUNDED IN COLORADO
by USDA's Sustainable Agriculture Research and Education (SARE) Program

Colorado has been awarded $5,614,966 grants to support 109 projects, including but not limited to, 19 research and/or education projects, 24 professional development projects and 54 producer-led projects. Colorado has also received additional SARE support through multi-state projects.

### RESEARCH AND EDUCATION GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| SW21-921   | Strengthening Opportunities Along the Meat Supply Chain to Promote Sustainable Agriculture in Intermountain States | $349,994     | Becca Jablonski  
Colorado State University  
Thomas Bass  
Montana State University  
Cody Gifford  
University of Wyoming  
Jennifer Martin  
Colorado State University  
Martha Sullins  
Colorado State University Extension  
Dr.Caitlin Youngquist  
University of Wyoming |
| SW20-910   | Developing sustainable peach orchard soil microbiome management practices to control replant disease syndrome | $350,000     | Dr.Ioannis Minas  
Colorado State University  
Dr.Jorge Vivanco  
Colorado State University |
| SW18-500   | Examining Cover Crops for Soil Health Restoration in Dryland Cropping Systems in SW Colorado and SE Utah | $249,974     | Dr.Steven Fonte  
Colorado State University |
| SW15-008   | The Feasibility of Cover Crops in Dryland Cropping Systems in SW Colorado and SE Utah | $249,269     | Dr.Abdelfettah Berrada  
Colorado State University-Southwestern Colorado Research Center |
| LNC14-356  | The Bison Advantage Outreach and Education Program                             | $103,675     | Jim Matheson  
National Bison Association |
| SW14-023   | On-farm Cyanobacterial Bio-fertilizer Production to Reduce the Carbon Footprint of Organic Fruit and Vegetable Production | $293,599     | Dr.Jessica Davis  
Colorado State University |
| SW09-053   | Harnessing the Sun for On-farm Fertilizer Production                           | $159,023     | Dr.Jessica Davis  
Colorado State University |
| SW09-401   | Farm to Fork: Connecting Our Youth with Sustainable Agriculture               | $48,988      | Dennis Lamm  
Colorado State University  
Tisha Casida  
That's Natural! |
| SW08-033   | Integrating Perennial Living Mulches into Irrigated Cropping Systems          | $146,684     | Joe Brummer  
Colorado State University |
| SW06-028   | Site-specific Manure Management for Improving Soil Quality                    | $131,332     | Dr.Raj Khosla  
Colorado State University |
<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| SW05-085 | Supply and Market Analysis for Organic Producers in the Four Corners States  | $144,511     | Dennis Lamm  
Colorado State University                                             |
| SW04-087 | Native Seed Production for Crop Diversification                             | $171,121     | Dr. Ron Godin  
Colorado State University - Rogers Mesa Res. Ctr.                          |
| SW02-002 | Extending Irrigated Alfalfa Stand Life and Long-Term Profitability by Alteration of Late-Season Harvest Schedules | $61,270      | Robert Hammon  
Tri River Cooperative Extension                                           |
| SW02-051 | A Range Management Curriculum and Participatory Planning Project for the Tohono O’odham Nation | $99,263      | Maria Fernandez-Gimenez  
Colorado State University                                                   |
| SW00-018 | Utilization of Compost Made from Agricultural and Forestry Wastes for Improving the Economic and Ecological Sustainability of Agronomic Crop Production on Low Organic Matter Soils in the San Luis Valley of Colorado | $137,916     | Richard Zink  
Colorado State University                                                   |
| SW99-056 | Developing Sustainable Dryland Cropping Systems in SW Colorado and SE Utah Using Conservation Tillage and Crop Diversification | $142,380     | Dr. Abdelfettah Berrada  
Colorado State University - Southwestern Colorado Research Center          |
| SW96-007 | Reducing Environmental Contamination from Feedlot Manure in the South Platte River Basin through Agronomic, Economic, and Social Analysis and Education | $206,000     | Dr. Jessica Davis  
Colorado State University                                                   |
| AW95-205 | Effectiveness of Beauveria Bassiana as a Microbial Control Agent for Coleopteran and Homopteran Pests of Irrigated Alfalfa | $36,091      | Frank Peairs  
Colorado State University                                                   |
| LW88-005 | Compiling a Database of Sustainable Producers for the Southern Rockies Region | $36,000      | Rita Robinson  
Sustainable Mountain Agricultural Alliance (SMALL)                           |

**PROFESSIONAL DEVELOPMENT PROGRAM GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| WPDP21-029   | Training Colorado educators about Sustainable Co-existence between ranchers and wolves | $99,949      | dana Hoag  
Colorado State University  
Dr. Stewart Breck  
Colorado State University  
Dr. Kevin Crooks  
Fish, Wildlife, and Conservation Biology, Colorado State University  
Dr. Alex Few  
Western Landowners Alliance  
CJ Mucklow  
Colorado State University  
Dr. John Sanderson  
Colorado State University  
Robin Young  
Colorado State University |
| WPDP21-017   | Reviving the Range School: Range Science Training for Colorado Extension Agents | $60,007      | Dr. Kevin Jablonski  
Colorado State University  
Retta Bruegger  
Colorado State University Extension  
Anne Overlin  
Colorado State University |
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Amount</th>
<th>Principal Investigator(s)</th>
</tr>
</thead>
</table>
| WPDP21-016 | Growing Heritage Grains for Market Production                        | $75,671 | Gretchen Groenke  
Emily Lockard  
Colorado State University Southwestern  
Colorado Research Center |
| EW18-005   | Seed Saving Farmer Training                                           | $45,350 | Lee-Ann Hill  
Rocky Mountain Seed Alliance |
| EW14-024   | Colorado Resource Monitoring Initiative-Professionals Training       | $23,000 | Erin Karney  
Colorado Cattlemen’s Association |
| EW12-009   | Integrating Birds in Range Management across the Sagebrush Steppe     | $60,000 | Laura Quattrini  
Rocky Mountain Bird Observatory (dba Bird Conservancy of the Rockies) |
| EW09-013   | In-service Training and Decision-Making Tools for Optimizing Livestock Mortality Management | $97,848 | Dr.Jessica Davis  
Colorado State University |
| EW09-014   | Curricula and Instructional Modules for Sustainable Small-Scale Greenhouse Production | $60,000 | Dr Steven Newman  
Colorado State University |
| EW08-016   | Professional Training for Developing a Hands-On Organic Weed Management Learning Center for Commercial Market Gardens in Local Communities | $89,492 | Beth LaShell  
Fort Lewis College |
| EW07-008   | Enterprise, Environmental and Community Development to Promote Agricultural and Heritage Tourism | $59,973 | Martha Sullins  
Colorado State University  
Dawn Thilmany  
Colorado State University  
Andrew Seidl  
Colorado State University |
| EW06-019   | Using Videos as a Teaching Tool: Improving Profits and Rangelands Through Application of Behavioral Principles | $80,000 | Beth Burritt  
Utah State University |
| EW05-015   | Manure Management: An essential component of 4-H livestock projects   | $59,927 | Dr.Jessica Davis  
Colorado State University |
| EW04-016   | BEHAVE Facilitator’s Network                                          | $99,702 | Kathy Voth  
Utah State University |
| EW03-011   | Education, Training and Outreach on Risk Education                   | $99,600 | Doug Hoag  
CSU |
| EW02-004   | Niche Beef Production and Marketing in Colorado                       | $59,470 | Martha Sullins  
American Farmland Trust  
Julia Freedgood  
American Farmland Trust  
Dawn Thilmany  
Colorado State University  
Tom Field  
Colorado State University |
| EW02-009   | Integrating Bird Conservation into Range Management                  | $81,937 | Tammy VerCauteren  
Rocky Mountain Bird Observatory |
| EW02-017   | Establishing Dialogue Between Alternative Agricultural Producers and the Land-Grant University in Colorado | $56,000 | Dr.Jessica Davis  
Colorado State University |
**FARMER/RANCHER GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>FW22-406</td>
<td>The Citizen Science Soil Health Project, Years 4-6</td>
<td>$29,900</td>
<td>Elizabeth Black&lt;br&gt;Your Neighborhood Christmas Tree Farm</td>
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<tr>
<td>FW20-371</td>
<td>The Application of using High-Fungal Compost to Renovate Mountain Meadow Pastures</td>
<td>$20,000</td>
<td>Steve Oswald&lt;br&gt;Oswald Cattle Co</td>
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<tr>
<td>FW19-341</td>
<td>The Citizen Science Soil Health Project</td>
<td>$24,800</td>
<td>Elizabeth Black&lt;br&gt;Your Neighborhood Christmas Tree Farm</td>
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<tr>
<td>FW19-354</td>
<td>Evaluating Forage Production and Ranching in Response to Regenerative Rotational Grazing on Dryland Pastures in Southwest Colorado.</td>
<td>$25,000</td>
<td>Chuck McAfee&lt;br&gt;Charles M.McAfee &amp; CO. LLLP</td>
</tr>
<tr>
<td>FW18-053</td>
<td>Managing Canada Thistle for Soil Health and Greater Farm Profitability through Crimped Cover Crop and Strip Tillage on Annual Brassicas and Cucurbits</td>
<td>$8,978</td>
<td>Michael Nolan&lt;br&gt;Mountain Roots Produce LLC</td>
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<tr>
<td>FW15-046</td>
<td>Feasibility of Summer (floricane) Brambles in Colorado</td>
<td>$14,571</td>
<td>Amy Kafka&lt;br&gt;Garden Sweet</td>
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<tr>
<td>FW15-057</td>
<td>Supplemental Heating of High Tunnels by Energy-Producing Compost Piles</td>
<td>$15,000</td>
<td>Dr.Amy Yackel Adams&lt;br&gt;Sunspot Urban Farm</td>
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<tr>
<td>FW14-027</td>
<td>Colorado Queen Honey Bee Testing Project for Increased Sustainability</td>
<td>$24,922</td>
<td>Kristine Holthaus&lt;br&gt;Colorado Queen Honey Bee Testing Project for Increased Sustainability</td>
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<tr>
<td>FW13-128</td>
<td>Improved Honeybee Health through Foundation Modification</td>
<td>$25,000</td>
<td>Audrey Sue McWilliams&lt;br&gt;Sue McWilliams</td>
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<tr>
<td>Project Number</td>
<td>Project Title</td>
<td>Grant Amount</td>
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<tr>
<td>FW12-076</td>
<td>Development of a Digitally Integrated, Low-cost Farm-to-Consumer Product Tracking System for Small Scale Farmers and Grower Networks</td>
<td>$24,965</td>
<td>Brett KenCairn Circle Fresh Farms</td>
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<tr>
<td>FW11-010</td>
<td>Alternative crops to diversify the traditional winter wheat/fallow cropping system in Northwest Colorado</td>
<td>$29,821</td>
<td>Mike Williams</td>
</tr>
<tr>
<td>FW10-059</td>
<td>Expanding Small Ruminant Dairy Production</td>
<td>$14,500</td>
<td>Suzanne Quintana Quintana Farms Neville McNaughton Cheezsorce</td>
</tr>
<tr>
<td>FW10-070</td>
<td>Effects of Sustainable Soil Amendments on Nutrient Availability in High Alkaline pH Soil in Field Production of Trees in Northeastern Colorado</td>
<td>$14,379</td>
<td>Dr. Brooke Edmunds CSU Extension David Rickman Boxelder Creek Nurseries</td>
</tr>
<tr>
<td>FW09-030</td>
<td>Alternative Fertilizer for Meadow Grass Hay</td>
<td>$10,775</td>
<td>Nancy Roberts Arrowpoint Cattle Co., LLC</td>
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<tr>
<td>FW07-024</td>
<td>Different Goat Breed Crosses to Find the Best Tasting Meat</td>
<td>$12,623</td>
<td>Holly Napier Napier Family Farms</td>
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<tr>
<td>FW07-031</td>
<td>Raising Livestock and Crops Simultaneously in Unheated Greenhouses</td>
<td>$12,089</td>
<td>John Socolofsky Antelope Creek Ranch</td>
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<tr>
<td>FW07-319</td>
<td>Season Extension and Crop Area Multiplication with a Moveable Hoophouse in an Organic System</td>
<td>$11,230</td>
<td>Dr. Edward Page CSU Extension</td>
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<tr>
<td>FW06-028</td>
<td>Integrated Control of Weeds and Verticillium in Strawberry Nurseries</td>
<td>$10,000</td>
<td>Brian Coleman Ruby Mountain Nursery</td>
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<tr>
<td>FW06-314</td>
<td>Business Plan for Producers to Create Value-added Crop-based Products</td>
<td>$20,000</td>
<td>Ravi Malhotra ICAST Intl Ctr for Appropriate &amp; Sustainable Tech</td>
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<tr>
<td>FW05-009</td>
<td>Non-chemical Control of Nematodes in Potatoes</td>
<td>$9,922</td>
<td>Monty Smith Three S Ranch</td>
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<tr>
<td>FW05-309</td>
<td>Management Practices for Drip Irrigation in Baca County, Colorado</td>
<td>$9,353</td>
<td>James Valliant Colorado State University</td>
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<tr>
<td>FW04-112</td>
<td>Common Standards and Labeling</td>
<td>$13,500</td>
<td>Dan Hobbs Tres Rios Agricultural Cooperative Inc.</td>
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<tr>
<td>FW04-318</td>
<td>Using Irrigated Forage Pastures to Enhance Livestock Production Sustainability</td>
<td>$13,555</td>
<td>Bruce Bosley Colorado State University Gene Schmitz Colorado State University</td>
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<tr>
<td>FW03-016</td>
<td>Production of Medicinal Herbs as an Integral Part of On-farm Cheese Production and the Use of Medicinals for Immuno-stimulation and Enhanced Milk Production</td>
<td>$5,455</td>
<td>Denise Bohemier El Rancho del Cielo</td>
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<tr>
<td>FW03-109</td>
<td>Edamame Bean Production and Marketing</td>
<td>$5,000</td>
<td>Phil Knob</td>
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<tr>
<td>Project Code</td>
<td>Title</td>
<td>Cost</td>
<td>Principal Investigator(s)</td>
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<tr>
<td>FW03-111</td>
<td>Market Development for an Edible Bean Food Business</td>
<td>$5,000</td>
<td>Shane Atchley</td>
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<tr>
<td>FW02-003</td>
<td>Agricultural Systems Economics for Hay production</td>
<td>$1,030</td>
<td>Wilbur Miller</td>
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<tr>
<td>FW02-006</td>
<td>SE Colorado Range Plant Quality Database and Supplement Formulation Program</td>
<td>$13,488</td>
<td>John Doherty</td>
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<tr>
<td>FW02-007</td>
<td>Propagation of Colorado Native Plants</td>
<td>$7,500</td>
<td>Ann Grant</td>
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<td>FW02-014</td>
<td>Study to Determine if Nepeta Cataria (Catnip) Can Be Commercially Grown in Montrose, CO</td>
<td>$5,000</td>
<td>Susan Bony</td>
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<tr>
<td>FW02-021</td>
<td>Design and Building of a Facility for the production of Goat and Sheep milk Cheeses on the farmstead in rural SW Colorado</td>
<td>$7,460</td>
<td>Denise Bohemier, El Rancho del Cielo</td>
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<tr>
<td>FW02-025</td>
<td>Colorado Organic Honey Production</td>
<td>$6,000</td>
<td>Cesar Flores</td>
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<tr>
<td>FW01-009</td>
<td>Tillage and Irrigation Assessment Effecting Soil Salinity along South Platte River</td>
<td>$6,400</td>
<td>Randy Honstein, Natural Resources Conservation District</td>
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<tr>
<td>FW01-010</td>
<td>Pastured Poultry as an Alternative and Enhancement to a Traditional Livestock Agricultural System</td>
<td>$6,500</td>
<td>Tony Daranyi, Colorado State University</td>
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<tr>
<td>FW00-012</td>
<td>Residue Management in Furrow Irrigated Reduced Tillage Systems</td>
<td>$4,650</td>
<td>Randy Hines</td>
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<tr>
<td>FW00-028</td>
<td>Building a Community-based Direct Marketing Model for Diverse Ranch Enterprises</td>
<td>$5,000</td>
<td>Jeremy Gingerich</td>
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<tr>
<td>FW00-032</td>
<td>Organic Soil Amendment Release Rates for Fertility in Apples</td>
<td>$6,750</td>
<td>Steve Ela</td>
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<tr>
<td>FW00-038</td>
<td>Native Plants Nursery</td>
<td>$5,000</td>
<td>John Squire</td>
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<tr>
<td>FW00-074</td>
<td>Colorado Quality Lamb: Enhancing the Economic Viability of Local Producers Through Direct Marketing to Food Service Establishments</td>
<td>$5,000</td>
<td>David Myers</td>
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<tr>
<td>FW00-240</td>
<td>Carbondale Community Garden Cooperative</td>
<td>$8,311</td>
<td>Wendy Anderson</td>
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<tr>
<td>FW00-277</td>
<td>Custer County Ag-Products Internet Marketing Project</td>
<td>$2,160</td>
<td>Sara Hebbert</td>
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<tr>
<td>FW00-302</td>
<td>Alternative Crop Marketing Based on a Pre-existing Urban-Rural Spiritual and Social Relationship</td>
<td>$3,400</td>
<td>Paul Mailander</td>
</tr>
<tr>
<td>FW00-329</td>
<td>Paradox Valley Heirloom Foods and Native Seed Grow-Out</td>
<td>$9,997</td>
<td>Martha Ames Burgess</td>
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</tbody>
</table>
FW99-011  Hydraulic Windmill Pump  $2,733  Lonnie Jackson

FW99-065  Sustainable Sheep Dairy Project  $3,550  Steve and Carolyn Keller

FW98-020  Testing Alternative Crop Rotations for Traditional Small Grain/Fallow System  $3,000  James Faughnan

FW98-024  Integrated Weed Management of Musk Thistle with Emphasis on Biological Control  $2,938  Larry Matschke

FW98-025  Annual Forage Production for an Intensive Winter Grazing System  $2,665  John Haws

FW98-065  Cultures and La Manga Cattlemen’s Association Range Analysis and Improvement Project  $8,700  Dennis Moeller

FW97-003  Converting Pasture Land to Specialty Crop Production as an Alternative Farm Enterprise  $2,500  Trent J. Taylor

FW97-024  Perennial Grass Establishment in Existing Alfalfa  $1,825  Douglas B. Wiley

FW97-045  Pasture Fryer Chickens  $2,500  Pete Mattics

FW96-005  Habitat Management as a Transitional Tool to an Insecticide: Free Pest Management Program in Apples  $1,500  Bob White

FW95-047  Evaluation of Alternative Crops in Dryland Multi-Crop Rotations on Farms in the Northeastern Colorado Region  $5,000  Joe Kinnie  Colorado Conservation Tillage Association

**GRADUATE STUDENT GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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</thead>
<tbody>
<tr>
<td>GW20-214</td>
<td>Cattle as Partners in Conservation: Ecological, Economic, and Social Outcomes of Public-Private Partnerships on Colorado Landscapes</td>
<td>$24,727</td>
<td>Dr. Stacy Lynn  Colorado State University  Anna Clare Monlezun  Colorado State University</td>
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<tr>
<td>GW19-202</td>
<td>Climate mitigation through soil carbon sequestration: increasing soil resilience and plant productivity on rangelands through compost application</td>
<td>$24,766</td>
<td>Dr. Jennie DeMarco  Western Colorado University  Amy Honan  Western Colorado University  Alexia Cooper  Western State Colorado University (doing business as Western Colorado University)</td>
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<tr>
<td>GW16-020</td>
<td>Dryland cropping system intensification in the West-Central Great Plains: Impacts and barriers to adoption</td>
<td>$25,009</td>
<td>Meagan Schipanski  Colorado State University  Steven Rosenzweig  Colorado State University</td>
</tr>
<tr>
<td>GW14-028</td>
<td>Information flows along the beef supply chain: Information exchange as a strategy for mitigating increased costs and maximizing producer profits.</td>
<td>$25,000</td>
<td>Dr. Jennifer Bair  Sociology, CU Boulder  Sarah Lake  University of Colorado-Boulder</td>
</tr>
</tbody>
</table>
### Impacts of Reduced Nitrogen Application During Late Growing Season on Potato Tuber Quality and Profitability

Dr. Sastry Jayanty
Department of Horticulture and LA Henry Castleberry
Colorado State University

### ON FARM RESEARCH/PARTNERSHIP GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| ONC22-102  | National Bison North Central Regenerative Ranching Workshop Series            | $39,087      | Jim Matheson
National Bison Association                        |
| OW21-368   | Enabling improved environmental outcomes/farm economics for sugarbeet farmers using improved nutrient stewardship | $75,000      | Dr. Rebecca Larson
The Western Sugar Cooperative                       |
| OW20-357   | Microbial Ecology of Vermicompost and Vermi-teas                             | $49,100      | Dr. Zackary Jones
Aggrego Data
Kathy Doesken
Rocky Mountain Soil Stewardship                      |
| OW20-358   | Compost for Carbon Sequestration on Irrigated Pasture                         | $49,746      | Retta Bruegger
Colorado State University Extension
Dr. Megan Machmuller
Seth Urbanowitz
Colorado State University Extension                   |
| OW10-309   | Reducing Nitrogen Fertilizer Inputs to Irrigated Pastures and Hayfields by Interseeding Legumes | $49,849      | Joe Brummer
Colorado State University                           |
| OW10-321   | Using Cattle to Rehabilitate Rangeland Vegetation and Improve Ecosystem Function (3 yr project) | $49,936      | Kathy Voth
Livestock for Landscapes                           |
| OW10-325   | Organic Winter Production Scheduling in Unheated High Tunnels.                | $38,358      | Frank Stonaker
Colorado State University                           |

**Total funding from the USDA SARE program to Colorado**

*$5,614,966*

For further information on projects, contact Western SARE at (406) 994-4789 or wsare@montana.edu.
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