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 $353 million to more than 8,041 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...

Idaho

Project Highlight: High Tunnels Extend Local Food Production
In 2010, Idaho’s farmers, researchers and educators launched a collaborative effort to achieve the goal of having 20 percent of the state’s food produced locally by 2020. At the same time, a survey of local food vendors revealed that the single largest roadblock to making this goal a reality is Idaho’s short growing season.

This prompted the University of Idaho’s Stephen Love to organize a team of horticulture specialists to expand farmers’ use of high tunnels in the state. Funded by a SARE grant, the team collaborated with three experienced high tunnel growers in different parts of the state to evaluate high tunnel designs and the profitability of growing various crops in them.

The experience at the three farms gave the team important information to share with growers around the state. On one farm, eggplants grown inside the tunnels were superior economically to ones grown outside, but for cucumbers the results were mixed. On another farm, there was a clear advantage to growing tomatoes, garlic and peppers in high tunnels. The third farm showed that medicinal crops otherwise unsuited to Idaho’s climate can be grown in high tunnels. It also evaluated structures specially designed by engineering students to withstand harsh winter conditions.

For more information on this project, see sare.org/projects, and search for project number OW13-043.

SARE in Idaho
western.sare.org/sare-in-your-state/idaho

$5,188,611 in total funding
75 grant projects
(since 1988)

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

Total awards: 75 grants
25 Research and Education
10 Professional Development Program
33 Farmer/Rancher
4 On Farm Research/Partnership
3 Graduate Student

Total funding: $5,188,611
$3,902,383 Research and Education
$739,754 Professional Development Program
$314,557 Farmer/Rancher
$151,960 On Farm Research/Partnership
$79,957 Graduate Student

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/idaho

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/idaho to learn more.

Carmen Willmore
University of Idaho Extension
(208) 886-2406
cwillmore@uidaho.edu

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

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.
Idaho has been awarded $5,188,611 grants to support 72 projects, including but not limited to, 22 research and/or education projects, 10 professional development projects and 33 producer-led projects. Idaho has also received additional SARE support through multi-state projects.

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| SW22-938   | Targeted grazing by sheep to control invasive species and reduce wildfire risk on western rangelands | $349,815      | Dr. Kelly Hopping
Boise State University
Sergio Arispe, PhD
Oregon State University
Marie-Anne de Graaff
Boise State University
April Hulet
Brigham Young University
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<th>Project Code</th>
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<td>SW21-922</td>
<td>Soil health and profitability implications of including brown mustard and its</td>
<td>$349,919</td>
<td>Dr. Arash Rashed</td>
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<td>products in an integrated wireworm management system</td>
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<td>Dr. Jae Ryu</td>
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<td>Gordon Gallup</td>
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<td>Dr. Patrick Hatzenbuehler</td>
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<td>Hans Hayden</td>
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<td>Dr. Inna Popova</td>
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<td>Dr. Kurtis Schroeder</td>
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<td>Wayne Westberg</td>
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<td>SW18-015</td>
<td>On-farm evaluation and demonstration of advanced manure solidliquid separation</td>
<td>$287,466</td>
<td>Dr. Lide Chen</td>
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<td>technologies for a sustainable dairy industry in Idaho</td>
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<td>SW16-031</td>
<td>Optimizing Water and Nitrogen Use for Sustainable Wheat Production</td>
<td>$249,939</td>
<td>Dr. Olga Walsh</td>
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<td>SW11-122</td>
<td>Incorporating Cover Crops and Green Manure in High-Desert Organic and</td>
<td>$47,628</td>
<td>Lauren Golden</td>
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<td>Conventional Farming Systems</td>
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<td>SW06-083</td>
<td>Black Soldier Fly Larvae as a Tool for Managing Animal Waste and Providing a</td>
<td>$117,682</td>
<td>Sophie St-Hilaire</td>
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<td>Food Source for the Aquaculture Industry</td>
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<td>SW06-039</td>
<td>‘Living on the Land’ Stewardship Education Program Expansion</td>
<td>$160,204</td>
<td>Stephanie Etter</td>
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<td>SW05-142</td>
<td>Assessment and Demonstration of the Sustainability of Long vs. Short Potato</td>
<td>$135,756</td>
<td>Amanda Shiffler</td>
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<td>Rotations</td>
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<td>Dr. Bryan Hopkins</td>
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<td>SW05-067</td>
<td>Assessment and Demonstration of the Sustainability of Long vs. Short Potato</td>
<td>$179,403</td>
<td>Bryan Hopkins</td>
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<td>SW05-039</td>
<td>Using farmer-rancher input to develop and implement experiential educational</td>
<td>$160,056</td>
<td>Cinda Williams</td>
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<td>opportunities for beginning farmers and ranchers</td>
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<td>SW03-021</td>
<td>Integrated Residue Management Systems for Sustained Seed Yield of Kentucky</td>
<td>$294,243</td>
<td>Donald Thill</td>
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<td>Bluegrass Without Burning</td>
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<td>SW02-038</td>
<td>On-Farm Versus Agricultural Experiment Station Evaluation and Improvement of</td>
<td>$167,717</td>
<td>Shree Singh</td>
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<td>Intrinsic Characteristics of Landrace Common Bean Cultivars for Sustainable</td>
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<td>Farming Systems in the Twenty-First Century</td>
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<td>SW02-037</td>
<td>Promoting Sustainable Potato Cropping Systems</td>
<td>$158,477</td>
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<td>SW02-004</td>
<td>Reducing Nitrogen and Phosphorus Excretions from Dairies in Gooding and</td>
<td>$145,672</td>
<td>Alexander Hristov</td>
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<td>Jerome Counties, Idaho</td>
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<td>University of Idaho</td>
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<tr>
<td>Project #</td>
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<td>SARE Support</td>
<td>Project Leaders</td>
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</table>
| SW00-042  | Exploration and Implementation of Sustainable Ag Practices and Outreach on the Fort Hall Indian Reservation for the Protection of Groundwater | $103,913     | Jennifer Miller  
John Helsel  
Shoshone-Bannock Tribes |
| SW97-010  | Management, Impact and Economics of Beef Cattle Grazing in Mountain Riparian Ecosystems | $105,400     | Patrick A. Momont  
Univ. of ID, Dept. of Animal & Vet. Sci. |
| SW95-021  | Brassica Green Manure Systems for Weed, Nematode, and Disease Control in Potatoes | $112,580     | Charlotte Eberlein  
University of Idaho |
| LWD91-002 | An Economic Evaluation of the MSU Crop Rotations On-Farm Research, Demonstration Legume, Cereal Rotations Compared with Conventional Rotations | $23,675      | Edgar Michalson  
University of Idaho |
| LW91-029  | Development of Sustainable Potato Production Systems for the Pacific North West | $330,000     | Jeffrey C. Stark  
University of Idaho |
| LW91-027  | Development of Winter Wheat Cover Crop Systems for Weed Control in Potatoes | $42,141      | Charlotte Eberlein  
University of Idaho |
| LW89-015  | Total Resource Budgeting of LISA (SARE) Farm Enterprises | $31,000      | Paul Patterson  
University of Idaho |

**PROFESSIONAL DEVELOPMENT PROGRAM GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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</thead>
</table>
| WPDP22-017 | Building Negotiation Knowledge and Skills for Enhanced Economic and Environmental Sustainability of Western Farm Businesses | $88,666      | Dr. Patrick Hatzenbuehler  
University of Idaho  
Dr. Kate Fuller  
Montana State University  
John Hewlett  
University of Wyoming, Department of Agricultural Economics  
Dr. Hernan Tejeda  
University of Idaho |
| WPDP22-005 | Enhancing Integrated Pest Management Skills Through Pest Friends, an Educational Board Game | $99,990      | Jason Thomas  
University of Idaho Extension Minidoka County  
Grant Loomis  
University of Idaho Extension-Blaine County |
| EW18-018  | Supporting outcome-based management on private & public rangelands: training agricultural professionals on monitoring techniques | $72,519      | Dr. Jason Karl  
University of Idaho |
| EW18-028  | Idaho Qualitative Soil Health Initiative and Training                          | $15,724      | Jessica Harrold  
Ada Soil & Water Conservation District  
Josie Erskine  
Ada Soil & Water Conservation District |
| EW05-012  | Forage and Pasture Educational Program for Extension, FSA, and NRCS in the Pacific Northwest | $90,000      | Glenn Shewmaker  
University of Idaho |
| EW04-014  | Building Knowledge of Sustainable Rangeland Management Using Information Technology | $91,847      | Karen Launchbaugh  
University of Idaho |
| EW03-009  | Expanding Opportunities for Community-Based Educational Programs in Sustainable Small Acreage Farming and Ranching | $98,143      | Cinda Williams  
University of Idaho Extension |
<table>
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<tr>
<th>Project #</th>
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<tbody>
<tr>
<td>EW02-011</td>
<td>Workshops on Soil Quality Assessment and Application for Field Staff</td>
<td>$27,590</td>
<td>Paula Jones, USDA-NRCS, Three Rivers RC&amp;D Council, Inc.</td>
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<tr>
<td>EW99-013</td>
<td>A Community Based Approach to Extension In Organic Agriculture</td>
<td>$10,000</td>
<td>Mir M. Seyedbagheri, University of Idaho, Elmore County Extension</td>
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<tr>
<td>EW97-012</td>
<td>Composting Education and Information Access for Western Agriculture</td>
<td>$145,275</td>
<td>Cinda Williams, University of Idaho Extension, Robert Rynk, University of Idaho</td>
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**FARMER/RANCHER GRANTS**

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<tr>
<td>FW22-393</td>
<td>Cardboard layering deep compost mulch for weed suppression, soil health, and profitability</td>
<td>$24,920</td>
<td>Jonah Sloven, Sweet Hollow Farm</td>
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<td>FW22-407</td>
<td>Building a holistic, biologically rich, healthy vineyard in order to produce a wine with higher nutrient density and superb flavor</td>
<td>$24,850</td>
<td>Ron Bitner, Phd, Bitner Vineyards</td>
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<td>FW17-039</td>
<td>Saving Water and Improving Soil Health Through LESA, Cover Crops, No-Till, and Management Intensive Grazing</td>
<td>$20,000</td>
<td>Pat Purdy, Pat Purdy</td>
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<tr>
<td>FW17-055</td>
<td>No-till potatoes into cover crop, using mod. conv. planter</td>
<td>$20,000</td>
<td>Jeff Parkinson, Jeff Parkinson</td>
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<td>FW16-042</td>
<td>A Rangeland Stock Handling Concept: Inherding on the Hat Creek Grazing Allotment, Ellis Idaho</td>
<td>$19,423</td>
<td>Glenn Elzinga, Alderspring Ranch</td>
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<td>FW11-032</td>
<td>Goat Meat is Great!</td>
<td>$7,799</td>
<td>Evelyn Simon, Simon Boers</td>
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<td>FW10-039</td>
<td>Pokey Creek Farm Elderberry Exploration</td>
<td>$14,877</td>
<td>Cinda Williams, Greg and Leah Sempel, Ashley McFarland, University of Idaho Extension</td>
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<td>FW08-322</td>
<td>A Multi-Faceted Approach to Managing Powdery Mildew on Organic Table Grapes in Southwest Idaho</td>
<td>$15,000</td>
<td>Ariel Agenbroad, University of Idaho Extension</td>
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<td>FW08-318</td>
<td>IBC Technical Services to Farmer's/Ranchers for Online Markets in South Central Idaho</td>
<td>$29,997</td>
<td>Judy Hall, Idaho's Bounty Co-op</td>
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<td>FW08-031</td>
<td>What Good Are Pasture-Raised Ducks to Whole Farm Systems?</td>
<td>$14,942</td>
<td>Mary Rohlfing</td>
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<td>FW06-042</td>
<td>Harvest Frequency, Yield and Economics of Summer Squash</td>
<td>$4,730</td>
<td>Karen Strickler</td>
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<td>FW06-036</td>
<td>Winter and Summer Greenhouse Production for Small-scale Growers</td>
<td>$6,235</td>
<td>Brad Jaeckel, Orchard Farm</td>
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<td>FW06-015</td>
<td>Extending Forage Season with Multi-functional Browse Islands</td>
<td>$8,560</td>
<td>Juvia Judd, Lazy M Suris, Deborah Berman, Lazy M Suris</td>
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<td>FW05-007</td>
<td>Controlling Common Tansy with Sheep</td>
<td>$3,422</td>
<td>Kimberly McConnaghy</td>
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<td>FW04-203</td>
<td>Optimizing Spatial &amp; Temporal Aspects of Designs for Small-Scale Diverse Farms</td>
<td>$5,500</td>
<td>Bridget Betta Bunzel, Bunzel Organics</td>
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<td>FW03-307</td>
<td>Ovine Browsing for Brush Control of Forested Environments</td>
<td>$7,500</td>
<td>Jeff Nauman, Idaho Department of Lands</td>
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<td>FW01-056</td>
<td>Farmers Educating Farmers: Developing a Soil Quality Indicator Guide</td>
<td>$10,500</td>
<td>Kyle Wilson, Natural Resource Conservation Agency</td>
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<td>FW01-039</td>
<td>Noxious Weed Grazing with Goats</td>
<td>$7,000</td>
<td>Bonnie Jensen, Lemhi County Ext.</td>
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<td>FW01-025</td>
<td>Developing a Sustainable Market for Small Farms in a Rural Community</td>
<td>$7,385</td>
<td>Diane Green, Grentree Naturals</td>
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<td>FW00-259</td>
<td>The Farm to Fork Exchange</td>
<td>$4,625</td>
<td>Nate Jones</td>
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<td>FW00-052</td>
<td>Low Stress Stockmanship School for Lemhi County, ID</td>
<td>$5,450</td>
<td>Wally Butler</td>
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<td>FW99-076</td>
<td>On-Site Rearing of Beneficial Predatory Mite Species</td>
<td>$4,200</td>
<td>Richard Nathanson</td>
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<td>FW99-012</td>
<td>Automated On-Farm Irrigation Water Diversion Gate</td>
<td>$3,890</td>
<td>George Davis</td>
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<td>FW98-099</td>
<td>Wiersema Dairy Agroforestry Project</td>
<td>$5,000</td>
<td>Jim Wiersema</td>
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<td>FW98-097</td>
<td>Fear and Loathing in the Potato Patch: Controlling Nematodes with Rape Seed Meal and Green Manures</td>
<td>$9,910</td>
<td>John O'Connor</td>
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<td>FW97-049</td>
<td>Non-Irrigated Alfalfa Performance Trial, Benewah County, Idaho</td>
<td>$3,500</td>
<td>Christina Crawford</td>
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<td>FW97-024</td>
<td>Systems Thinking in a Range Environment</td>
<td>$5,000</td>
<td>Jay Black</td>
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<td>FW97-044</td>
<td>Paradise Time Controlled Grazing</td>
<td>$5,000</td>
<td>Mark Pratt</td>
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<td>FW96-060</td>
<td>Economic Viability of Greenhouse Solarization</td>
<td>$2,450</td>
<td>Larry Higgins</td>
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<td>FW95-080</td>
<td>Squash Bug Management Through Introduction of Game Birds</td>
<td>$2,740</td>
<td>Jill Kohler, Eagle Organic Farms</td>
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<td>FW95-046</td>
<td>Developing an Idaho-Based Marketing Cooperative for Sustainability and Locally Grown Produce</td>
<td>$4,622</td>
<td>Janie Burns, Meadlowlark Farms</td>
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FW95-034  Row Spacing Effect on Weed Suppression  $530  Lee Griffiths

FW95-025  Biological Control in Idaho Alfalfa Seed Fields  $5,000  Larry Sorenson  Sorenson Farms

**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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<tr>
<td>GW21-222</td>
<td>Trap Crops and Crop Rotation for Eradication of the Pale Cyst Nematode in Idaho</td>
<td>$29,966</td>
<td>Louise-Marie Dandurand  University of Idaho</td>
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<td>Paige Hickman  University of Idaho</td>
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<td>GW20-217</td>
<td>The effects of cover crops on soil arthropod communities in the Inland Pacific Northwest</td>
<td>$24,993</td>
<td>Dr. Sanford Eigenbrode  University of Idaho</td>
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<td>Dane Elmquist (PI: Eigenbrode) University of Idaho</td>
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<td>GW20-206</td>
<td>Evaluating the effectiveness of mustard species and their concentrated extracts in reducing losses to wireworms in the Pacific Northwest, USA.</td>
<td>$24,998</td>
<td>Dr. Arash Rashed  University of Idaho</td>
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<td>Reed Findlay  University of Idaho</td>
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<td>Atoosa Nikoukar/ PI Rashed  University of Idaho</td>
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**ON FARM RESEARCH/PARTNERSHIP GRANTS**

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<td>OW15-032</td>
<td>Madison County Healthy Soil Initiative</td>
<td>$50,000</td>
<td>Robbie Taylor  Madison SWCD</td>
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<td>OW13-017B</td>
<td>Reference strips and precision sensors for increased nitrogen use efficiency in wheat production</td>
<td>$1,961</td>
<td>Dr. Olga Walsh  University of Idaho</td>
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<td>OW13-043</td>
<td>Extension of Local Food Production in Idaho Using High Tunnel Technology</td>
<td>$49,999</td>
<td>Dr. Stephen Love  University of Idaho</td>
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<td>OW10-301</td>
<td>Using Aquaponics with Renewable Energy Resources to Create Sustainable Food Systems while Reducing Nutrient, Energy, and Water Costs</td>
<td>$50,000</td>
<td>Matt Johnson  Sustain Pro Management</td>
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<td>Harry Ako  University of Hawaii</td>
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**Total funding from the USDA SARE program to Idaho**

$5,188,611

For further information on projects, contact Western SARE at (435) 797-2257 or wsare@usu.edu.
Sustainable Agriculture Research and Education (SARE) is funded by USDA’s National Institute of Food and Agriculture (NIFA).