



# AGRICULTURE PROJECTS FUNDED IN UTAH

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

Utah has been awarded \$5,339,396 grants to support 72 projects, including but not limited to, 31 research and/or education projects, 8 professional development projects and 19 producer-led projects. Utah has also received additional SARE support through multi-state projects.

## RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">SW19-909</a>	Identifying Stacked Conservation Practices that Optimize Water Use in Agriculture	\$349,977	Matt Yost Utah State University Niel Allen Utah State University Ryan Christensen Christensen Farms Dr.Earl Creech Utah State University Steve Hanberg Hanberg Farms Neil Hansen Brigham Young University Matthew Heaton Brigham Young University Dr.Bryan Hopkins BYU Brent Hunter Hunter Land and Livestock Howard Neibling University of Idaho Ross Spackman Brigham Young University-Idaho Jason Westover Westover Dairy
<a href="#">SW19-905</a>	Can we manage public rangelands for producers and the environment?: Using grazing-duration to balance livelihoods, clean water, sage-grouse habitat, and sustainable forage	\$349,979.32	Dr.Kristin Hulvey Utah State University Taylor Payne Utah Department of Agriculture's Grazing Improvement Program Alvin Shaul
<a href="#">SW18-058</a>	Establishing a protocol for receiving cattle that are at-risk of having a mineral deficiency	\$206,209	Dr.Kara Thornton Utah State University
<a href="#">SW17-046</a>	Grass-birdsfoot trefoil mixtures to improve the economic and environmental sustainability of pasture-based organic dairies in the western U.S.	\$214,123	Dr.Blair Waldron USDA-ARS
<a href="#">SW17-077</a>	Best Management Practices for Regionally-Distinct Populations of the Blue Orchard Bee	\$246,910	Theresa Pitts-Singer USDA Agricultural Research Service

<a href="#"><u>SW15-003</u></a>	Training cattle to graze medusahead and avoid velvet lupine: A new tool to sustain the economic viability of livestock operations in the Western US	\$249,909	Dr.Juan Villalba Utah State University
<a href="#"><u>SW15-029</u></a>	Improving Tart Cherry Sustainability	\$230,154	Dr.Brent Black Utah State University
<a href="#"><u>SW14-015</u></a>	Integrated Byproduct Streams for Enhanced Viability of Combined Dairy Farm and Milk Processing Operations	\$295,688	Dr.Donald McMahon Western Dairy Center, Utah State University
<a href="#"><u>SW13-034</u></a>	Onion Systems Management Strategies for Crop Nutrition, Weeds, Thrips, and Iris Yellow Spot Virus	\$169,299	Dr.Diane Alston Utah State University
<a href="#"><u>SW10-088</u></a>	Grass-Legume pastures to increase economic and environmental sustainability of livestock production	\$209,907	Dr.Blair Waldron USDA-ARS
<a href="#"><u>SW08-076</u></a>	Cultural Management of Onion Thrips and Iris yellow Spot Virus	\$133,441	Dr.Jennifer Reeve Utah State University
<a href="#"><u>SW07-014</u></a>	Sustainable Vegetable Production: Screening Cover Crops for Water Use Efficiency	\$118,411	Dr.Daniel Drost Utah State University
<a href="#"><u>SW07-035</u></a>	High Value Crop Rotations for Utah High Tunnels	\$144,495	Brent Black PSC Department, Utah State University Dr.Brent Black Utah State University
<a href="#"><u>SW04-060</u></a>	Perennial Forage Kochia for Improved Sustainability of Grass-Dominated Ecosystems	\$149,503	Dale Zobel ADVS Dept., Utah State University
<a href="#"><u>SW02-013</u></a>	Sustainable Water Management for Irrigated Asparagus	\$23,013.50	Dr.Daniel Drost Utah State University
<a href="#"><u>SW01-023</u></a>	Biofumigants in Commercial Onion Production to Enhance Soil Nutrient Availability, Soil Quality, and Control of Weed, Nematode, and Disease Pests	\$134,317	Brad Geary Brigham Young University
<a href="#"><u>SW01-034</u></a>	Assessment of Value Added Milk from Pasture-based Dairies	\$78,000	Tilak Dhiman Utah State University
<a href="#"><u>SW01-001</u></a>	Value Added Opportunities from the Manufacture and Feeding of Silages Produced from Liquid Cheese Whey and Other By-products to Growing and Finishing Cattle and Beef Cows	\$59,777	Dale Zobel ADVS Dept., Utah State University
<a href="#"><u>SW01-020</u></a>	Production of Drought-adapted Intermountain Native Plants Through Low-cost, In-containers for Emerging Western Markets	\$71,686	Roger Kjelgren Utah State University
<a href="#"><u>SW00-040</u></a>	In-house composting in high-rise, caged layer facilities	\$60,975	Richard Koenig Utah State University
<a href="#"><u>SW00-063</u></a>	Impact Assessment of Western Region	\$38,500	Dr.Rhonda Miller

	SARE Projects		WSARE
<a href="#">SW99-024</a>	The Effects of Altering the Protein Efficiency of Lactating Dairy Cows on the Whole-farm Nitrogen Efficiency of Dairy Farms: Subcontract 1	\$19,184	Allen Young Utah State University
<a href="#">SW99-024A</a>	The Effects of Altering the Protein Efficiency of Lactating Dairy Cows on the Whole-Farm Nitrogen Efficiency of Dairy Farms.	\$89,571	Allen Young Utah State University
<a href="#">SW99-024B</a>	The Effects of Altering the Protein Efficiency of Lactating Dairy Cows on the Whole-Farm Nitrogen Efficiency of Dairy Farms	\$19,184	Richard Kohn
<a href="#">SW98-058</a>	Reducing Chemical Inputs in Arid-Climates Through Sustainable Orchard Management	\$261,044	Schuyler Seeley Utah State University
<a href="#">SW96-032</a>	Identification of Management Practices and Cultivars for Organic Hard-Winter Wheat Production	\$93,911	David Hole Utah State University
<a href="#">SW95-006</a>	A Livestock Production System Less Reliant on the Use of Publicly Owned Lands	\$60,000	Randall D. Wiedmeier Utah State University
<a href="#">SW95-015</a>	Public-Land Grazing Permittees Under Pressure: Sustainability of Coping Strategies on Private Land	\$63,000	D. Layne Coppock Utah State University
<a href="#">LWD93-034</a>	Four Corners Navajo Nation Sustainable Agriculture Demonstration Project	\$100,000	Lyle G. McNeal Utah State University.
<a href="#">LWD93-006</a>	Navajo Nation Whole Farm/Ranch Sustainable Systems Demonstration Project	\$14,000	Lyle G. McNeal Utah State University.
<a href="#">LWD92-005</a>	Conference on the Science of Sustainable Agricultural Systems	\$15,500	David Bezdicek Washington State University

#### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">WPDP19-14</a>	Enhancing Enterprise Diversification Assessment for Native American Farmers to Enhance Economic Sustainability	\$67,650	Ruby Ward Utah State University Vicki Hebb Trent Teegerstrom University of Arizona
<a href="#">EW15-023</a>	Sustaining the Future of Navajo Rangelands via Mobile Learning Tools to Promote Enhanced Vegetation Management	\$62,260	Dr.Gerald Hawkes New Mexico State University
<a href="#">EW14-017</a>	Building Business Management Capacity for American Indian Agricultural Businesses	\$75,000	Ruby Ward Utah State University
<a href="#">EW13-005</a>	Economic Evaluation of Agricultural Diversification through Agritourism for the Intermountain West	\$74,492	Dr.Kynda Curtis Utah State University

<a href="#">EW09-007</a>	Economic Evaluation of Alternative (low-water use) Crops for the Great Basin	\$99,723.50	Carol Bishop University of Nevada Cooperative Extension Dr.Kynda Curtis Utah State University
<a href="#">EW06-005</a>	Entrepreneurial Sustainable Agriculture: Alternatives for Processing, Packing, Labeling and Marketing in Internet/Retail Environments	\$58,755	John C. Allen, PhD Western Rural Development Center
<a href="#">EW06-018</a>	Disseminating Research-based Information to Improve Great Basin Rangelands	\$21,605	Summer Olsen Utah State University Mark Brunson Utah State University
<a href="#">EW04-010</a>	Communication of Range Demonstration Project Results	\$15,045	Ken Mills Utah Association of Conservation Districts

#### **FARMER/RANCHER GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#">FW19-343</a>	Can barley fodder be fed in place of grass hay to dairy goats and dairy sheep and what effect will it have on milk production and composition.	\$19,407	Anita Wilson Milky Hollow Creamery
<a href="#">FW07-315</a>	Bramble Variety Trials in Utah to Reduce Disease, Increase Production and Enhance Profitability	\$23,250	Rick Heflebower Utah State University
<a href="#">FW06-012</a>	Interseeding Forage Kochia in Established CRP Land for Enhanced Livestock and Wildlife Utilization	\$7,621	Ron Harper
<a href="#">FW06-027</a>	Commercial Artichokes in the Intermountain West	\$5,180	James Haggarty Sun River Farms
<a href="#">FW06-327</a>	Integrating Annual Crop Residues, Perennial Pastures, and Livestock Management to Extend the Grazing Season and Minimize Losses of Soil Nitrogen	\$10,000	Thomas Griggs Utah State University
<a href="#">FW05-022</a>	Increasing the Profitability of Raspberries by Extending the Growing Season	\$2,310	Clark Willis
<a href="#">FW04-314</a>	Organic Dairy Transition in Northern Utah	\$7,500	Clark Israelsen Utah State University Cooperative Extension
<a href="#">FW04-014</a>	Goats as a Weed Control Alternative in Small Acreage Ranchettes	\$3,382	Kyle Christensen
<a href="#">FW04-037</a>	Tomato Disease Prevention and Production Enhancement	\$2,095	Aviva Maller-O'Niel Rick Heflebower Utah State University
<a href="#">FW03-201</a>	Winter Cover Crop Experiment	\$1,120	Aviva Maller-O'Niel
<a href="#">FW03-306</a>	Season Extension Experiment	\$1,250	Rick Heflebower

Utah State University

<a href="#">FW00-019</a>	Medusahead Control and Revegetation in Southern Cache County, UT	\$6,414	Guy Pulsipher
<a href="#">FW00-054</a>	Southern Utah Forest Products Association Cooperative Marketing Act	\$4,835	Brian Cottam
<a href="#">FW00-317</a>	The Original Cache Junction Families Popped Wheat	\$2,801	Wes Roundy
<a href="#">FW99-080</a>	Composting Poultry Waste Inside High Rise Layer Houses	\$4,992	Mike Shepherd
<a href="#">FW99-117</a>	Hovenweep Burn Reseeding and Demonstration Area	\$4,000	Mary Tso
<a href="#">FW97-065</a>	Alternative Cropping For the Navajo Reservation	\$4,300	Mark Maryboy
<a href="#">FW97-038</a>	Increased Forage Production during Alfalfa Rotation Years in Johnson Canyon, Utah. Biological Control of Scotch and Bull Thistle on Disturbed Alfalfa Pastures	\$2,900	Michael E. Noel
<a href="#">FW95-084</a>	Pasture Aeration and Fertilizer Study	\$2,480	Ken Carter

**GRADUATE STUDENT GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#">GW18-106</a>	Brown Marmorated Stink Bug in Utah's Intermountain West	\$24,999	Dr.Diane Alston Utah State University Mark Holthouse Utah State University
<a href="#">GW18-156</a>	Utilizing Tannin-Containing Forages and Holos Software for Sustainable Beef Production in the Intermountain West	\$20,204	Dr.Jennifer Reeve Utah State University Kathryn Slebodnik Utah State University
<a href="#">GW17-060</a>	Navajo Spinach (Cleome Serrulata): Improving Seed Germination from Wild Populations Gathered across Native Lands of the Four Corners	\$24,969	Dr.Daniel Drost Utah State University Reagan Wytsalucy Utah State University
<a href="#">GW15-046</a>	Improved simple on-site soil quality testing for soils in the Intermountain West	\$24,844	Dr.Jennifer Reeve Utah State University Esther Thomsen USU
<a href="#">GW13-006</a>	Determination of gas emissions from manure sources in animal feeding operations	\$25,000	Scott B. Jones Utah State University Dr.Rhonda Miller WSARE Pakorn Sutitarnnontr Biological Engineering Department, Utah State University

<a href="#">GW12-030</a>	Contributions to pest suppression through predator phenology and functional diversity	\$13,095	Dr.Ricardo Ramirez Utah State University Erica Stephens Utah State University
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#### ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">OW19-343</a>	Management strategies for Tomato spotted wilt virus and curtoviruses in Utah	\$31,149	Claudia Nischwitz Utah State University Dr.Diane Alston Utah State University Bryce Frei Mark Fryer Richard Heflebower Utah State University Extension - Washington County Lyle Holmgren Kelby Johnson Candace Schaible Utah State University Extension - Iron County Benjamin Scow
<a href="#">OW19-346</a>	Promoting crop diversification and soil health for cut flower production	\$49,999	Dr.Melanie Stock Utah State University Dr.Brent Black Utah State University Dr.Daniel Drost Utah State University Heather Griffiths Wasatch Blooms Kyler and Brittany McPherson Local Roots Flower Farm Fawn Rueckert Sego Lily Flower Farm Dr.Larry Rupp Utah State University Julie and Ryan Williams Stonehouse Dahlias Shelly Zollinger Flourish Flower Farm
<a href="#">OW18-007</a>	Supporting Natural Enemies of the Cabbage Aphid with Hedgerow Plantings	\$48,554	Laura Horn Wild Bee Project
<a href="#">OW14-036</a>	Biochar Amendment to Enhance Tomato and Melon Productivity and Protect Against Phytophthora Root Rot Disease	\$49,990	Marion Murray Utah State University
<a href="#">OW13-005</a>	Rangeland Restoration on the Channel Scablands of Eastern Washington	\$49,931	Dr.Kip Panter USDA-ARS-PPRL
<a href="#">OW12-020</a>	Feedlot performance, feed efficiency, and profitability of cattle fed either a complete mixed ration or allowed to voluntarily select their diet.	\$49,967	Beth Burritt Utah State University

#### PDP STATE PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">WSP19-021</a>	Utah State PDP Program 2020	\$28,686	Marion Murray Utah State University

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**Total funding from the USDA SARE program to  
Utah  
\$5,339,396**

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

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