



## AGRICULTURE PROJECTS FUNDED IN ARIZONA

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

Arizona has been awarded \$1,844,370 grants to support 51 projects, including but not limited to, 8 research and/or education projects, 5 professional development projects and 26 producer-led projects. Arizona has also received additional SARE support through multi-state projects.

### State Sustainable Agriculture Coordinators:

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### RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">SW05-065</a>	Increased production of inland shrimp farms	\$98,024	Feng-Jyu Tang-Nelson University of Arizona
<a href="#">SW01-062</a>	Assessing Sustainability of Shrimp Aquaculture and Integration with a Field Crop	\$68,523	Kevin Fitzsimmons Univ of AZ Environmental Research Lab
<a href="#">SW01-026</a>	Development of a Sustainable Polyculture Seaweeds and Fish on Molokai	\$95,200	Stephen Nelson University of Arizona Environmental Research Lab
<a href="#">SW01-056</a>	Conservation Tillage Benefits in a Cotton Centered Crop Rotation System	\$175,277	William McCloskey University of Arizona
<a href="#">SW00-053</a>	Improving Pollination in the Southwest: Testing the on farm feasibility of establishing and managing the carpenter bee for multiple crop farming systems	\$32,150	Jim Donovan Native Seeds SEARCH/University of Arizona
<a href="#">SW98-036</a>	Indian Range Livestock Production in the West and Southwest: Entering, Enduring and Emerging from Drought Conditions	\$103,000	Robert Kattnig University of Arizona
<a href="#">SW98-068</a>	Minimum Tillage Systems for Cotton: Reduced Energy, Time, and Particulates	\$182,850	Robert Roth University of Arizona Dr. James Walworth University of Arizona
<a href="#">SW97-025</a>	Sustainable Culture of the Edible Red Seaweed, Gracilaria parvispora, in Traditional Hawaiian Fishponds	\$95,201	Edward P. Glenn Univ. of AZ, Dept. of Soil, Water & Env. Science

### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
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<a href="#">EW17-006</a>	Collaborative Training for Southwest Grassland Restoration under Environmental Uncertainty	\$71,503	George Ruyle University of Arizona
<a href="#">EW14-002</a>	SOLAR ENERGY TRAINING PROGRAM FOR ARIZONA EXTENSION EDUCATORS	\$65,559	Dr.Edward Franklin University of Arizona
<a href="#">EW07-020</a>	"High Tech, High Touch" Professional Development in Geospatial Applications for Invasive Species Management	\$60,560	Barron Orr University of Arizona
<a href="#">EW02-010</a>	Striking a Balance: Rangeland Evaluation and Monitoring in the 4-Corners Region	\$100,000	Joanna Austin-Manygoats Navajo Nation Department of Agriculture John Blueyes Navajo Nation Department of Agriculture
<a href="#">EW98-007</a>	Navajo Noxious Weed Training Program	\$52,542	Wallace Tsosie Navajo Resource Conservation & Development, Inc.

### FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">FNC18-1138</a>	Mitigation of Potential Adverse Effects of Transgenic Crop Production for Long-Term Improvement of Soil Health	\$7,481	Michael Osweiler MICHAEL OSWEILER
<a href="#">FW17-017</a>	Honey Bee Mating Control and Production Cost Analysis In Africanized Regions Using Instrumental Insemination	\$20,000	Jaime de Zubeldia Jaime de Zubeldia
<a href="#">FW17-048</a>	Sustainable Alternative Livestock Feed System for Small-Scale Ranchers	\$20,000	Chelise Largent Chelise Largent
<a href="#">FW16-032</a>	Sustainable Water Management in a Passive Irrigation System	\$19,660	Aaron Anderson Viking Agriculture LLC
<a href="#">FW14-007</a>	Sustainable Method of Protecting Western Redcedar from Deer Browsing	\$15,000	Dr.Andrej Romanovsky Tree Fever Farm: Forestland Conservation and Development
<a href="#">FW13-142</a>	Integrating Traditional Foods with Aquaponics in the Desert Southwest	\$14,972	Aaron Cardona Arealos Farm
<a href="#">FW12-068</a>	On-Farm Pollinator Habitat	\$25,000	Dr.Gary Nabhan Almuniya de los Zopilotes orchard
<a href="#">FW11-017</a>	Agricultural Soil Amendment Project	\$14,870	Bill Edwards North Leupp Family Farms Stacey Jensen NLFF
<a href="#">FW11-033</a>	Navajo Crop Demonstration Project	\$30,000	Ernesto Zamudio Principal Investigator
<a href="#">FW10-060</a>	Eastern Navajo Cattle Herd Improvement	\$29,992	Anthony Howard Eastern Navajo Cattle Growers

<a href="#">FW09-032</a>	Intensive Cultivation Through Edible Cover Cropping Integrated with Bee Keeping	\$14,900	James Golo
<a href="#">FW07-310</a>	Hopi Rangeland Management Series	\$14,513	Dennis Becenti
<a href="#">FW05-005</a>	Partnership for Monitoring Rangeland and Riparian Health in Red Rock Canyon Watershed, Santa Cruz County, Arizona	\$19,976	Richard Collins Collins C6 Ranch
<a href="#">FW04-113</a>	Ganado Farm Board Agricultural Marketing Study	\$15,000	Teresa Showa Ganado Farm Board
<a href="#">FW03-002</a>	EC Bar Ranch Riparian Grazing Management Project	\$7,500	James Crosswhite EC Bar Ranch
<a href="#">FW03-104</a>	Wool and Weavings Fair Traded from the Source	\$15,000	Carol Halberstadt Black Mesa Weavers for Life and Land
<a href="#">FW02-215</a>	Chinle Valley Navajo Truck Farm Project	\$13,500	Gwendolyn Wagner
<a href="#">FW01-066</a>	Fruitvale Community Garden	\$2,768	Patricia Vigil
<a href="#">FW00-338</a>	Sustainable Shrimp Farm Tours and Direct Sales Project	\$5,800	Gary Wood
<a href="#">FW00-258</a>	Gila River Farms Fresh Produce Market	\$3,750	Mary Thomas
<a href="#">FW00-325</a>	Navajo Corn Pollen, Young Ears of Corn for Knee-Down-Bread, and Neeshjizhi Marketing	\$7,740	Teresa Showa
<a href="#">FW99-061</a>	Carrying on Dine' Cultural/Traditional Flour Corn Farming: Roots of Dine' People	\$5,000	Woodie and Maggie Jodie
<a href="#">FW98-031</a>	Navajo Nation Livestock Disease Survey	\$7,000	Glenda Davis
<a href="#">FW96-012</a>	Goal-Driven Intensive Management of a Riparian/Sandy Bottom Site	\$4,310	Kali Holtschlag Adams Ranch
<a href="#">FW96-045</a>	Managing Biological Processes for Maximum Diversity and Productivity	\$2,500	Mike Mercer
<a href="#">FW96-010</a>	Moving Succession Forward in a Lahmann Lovegrass Monoculture	\$3,000	Steve Getzwiller Spear G Ranch

**GRADUATE STUDENT GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#">GW18-024</a>	Ecosystem Services on Shrub-Encroached Rangelands; Balancing Supply and Demand	\$25,000	Prof. Steven Archer The University of Arizona Scott Jones University of Arizona
<a href="#">GW18-131</a>	Empowering producers to effectively integrate chemical and biological controls through research and outreach on selective chemistries and impacts on natural enemies.	\$25,000	Isadora Bordini University of Arizona Isadora Carlos Bordini UofA
<a href="#">GW15-006</a>	Biocrusts, grass establishment, and restoration of working rangelands	\$24,934	Prof. Steven Archer The University of Arizona Cheryl McIntyre University of Arizona
<a href="#">GW12-064</a>	Enhancing the Potential for Sustainability through Participatory Environmental Assessment	\$25,000	Barron Orr University of Arizona Anahi Ocampo Melgar University of Arizona
<a href="#">GW10-030</a>	Characterization of Soil Fungal Communities Associated with Native and Invasive Grass Species in Southern Arizona	\$18,329	Dr. Barry Pryor University of Arizona Carol Rowand University of Arizona Dept. of Plant Sciences
<a href="#">GW10-034</a>	Influences of Society, Politics and Local Knowledge on Ranch Management	\$25,000	George Ruyle University of Arizona Steven Woods University of Arizona
<a href="#">GW10-004</a>	Assessing Direct and Indirect Interactions between Insect and Plant Pathogens and Their Impact on Insect Herbivores	\$24,996	Dr. Patricia Stock Entomology-University of Arizona Patricia Navarro
<a href="#">GW10-015</a>	Agriculture, Water, and Institutions: An Investigation of Water Management Policy and its Effects on Water Use by Agriculture in Arizona	\$8,795	John Anderies Arizona State University Haley Paul Arizona State University
<a href="#">GW07-004</a>	Contamination of non-Bt cotton fields by transgenic Bt cotton	\$20,000	Yves Carriere University of Arizona Shannon Heuberger University of Arizona
<a href="#">GW07-007</a>	An Environmentally-Friendly Alternative for Control of the Citrus Nematode in Arizona	\$19,746	Dr. Patricia Stock Entomology-University of Arizona Joanna Gress University of Arizona

**ON FARM RESEARCH/PARTNERSHIP GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#">OW12-010</a>	Production, Milling and Marketing of Arid-Adapted Heritage Grains in the Desert Borderlands to Increase Food Security	\$49,950	Chris Schmidt Native Seeds/SEARCH

**PDP STATE PROGRAM GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#">WSP17-003</a>	2018 University of Arizona PDP Project	\$37,998.54	Rick Gibson University of Arizona

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## Total funding from the USDA SARE program to Arizona \$1,844,370

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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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