



## AGRICULTURE PROJECTS FUNDED IN HAWAII

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

Hawaii has been awarded \$5,761,833 grants to support 99 projects, including but not limited to, 25 research and/or education projects, 16 professional development projects and 40 producer-led projects. Hawaii 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="#">SW17-050</a>	Assessing and Sharing Breadfruit Management Practices	\$220,811	Dr.Noa Lincoln University of Hawaii at Manoa
<a href="#">SW16-021</a>	Improving Nitrogen Synchronization of Local Fertilizers, Soil Fertility, and Crop Quality with Biochar Application	\$259,816	Dr.Nguyen Hue University of Hawaii at Manoa
<a href="#">SW16-023</a>	Development of Individual Free-Choice Mineral Supplementation Program for Sustainable Grazing Management of Hawaii's Rangelands	\$332,601	Dr.Mark Thorne University of Hawaii at Manoa
<a href="#">SW14-026</a>	High nutrient solution fertilizers derived from local organic inputs for field and greenhouse application in the tropics	\$170,466.34	Dr.Amjad Ahmad University of Hawaii at Manoa
<a href="#">SW12-040</a>	Low-input integrated management of tomato viruses in Hawaii	\$297,296	Dr.Mark Wright University of Hawaii
<a href="#">SW12-114</a>	Secondary Effects of Behavior-based Pasture Management	\$37,125	Matthew Stevenson University of Hawaii
<a href="#">SW11-055</a>	Reducing Pacific Island Growers' Reliance on Off-island Fertilizer Sources Through Improved Awareness and Efficient Use of Local	\$284,070	Dr.Theodore Radovich University of Hawaii, Manoa
<a href="#">SW11-052</a>	Developing sustainable pest management strategies against major pests of papaya in Hawaii	\$148,174	Dr.Leyla Kaufman University of Hawaii at Manoa
<a href="#">SW09-102</a>	Voluntary Long-Term Protection of Agricultural Land in Hawaii	\$82,814	Dr.Christopher Lepczyk University of Hawaii at Manoa

<a href="#">SW09-502</a>	Sustaining Molokai Native Hawaiian Family Farms	\$47,420	Alton Arakaki UH-College of Tropical Agriculture and Human Resources, Cooperative Extension Service Glenn Teves UH CTAHR Cooperative Extension Service
<a href="#">SW08-037</a>	Sunn hemp and its allelopathic compounds for vegetable production in Hawaii and beyond	\$156,105	Dr.Inga Zasada USDA-ARS Horticultural Crops Research Lab Dr.Koon-Hui Wang University of Hawaii Dr.Cerruti R. R. Hooks University of Maryland Dr.Ming Li Wang USDA-ARS, PGRCU Jari Sugano University of Hawaii, PEPS Dr.Mark Wright University of Hawaii
<a href="#">SW07-073</a>	Enhancing Phytonutrient Content, Yield and Quality of Vegetables with Compost Tea in the Tropics	\$162,500	Dr.Theodore Radovich University of Hawaii, Manoa
<a href="#">SW07-501</a>	Innovative SARE Coordinator Program: Virtual Field Days to Improve Farmer-Researcher-Extension Linkages	\$25,000	Jonathan Deeniki University of Hawaii at Manoa
<a href="#">SW07-604</a>	Improving and extending the superhero status of the sunn hemp to other growers in need of help	\$10,000	Dr.Cerruti R. R. Hooks University of Maryland Dr.Koon-Hui Wang University of Hawaii
<a href="#">SW04-064</a>	Management of Banana Bunchy Top in Hawaii	\$90,458	Dr.Cerruti R. R. Hooks University of Maryland
<a href="#">SW03-003</a>	Cropping Systems to Control Tropical Soil-Borne Pests in Dryland-Grown Taro	\$257,827	Dr.Susan Miyasaka University of Hawaii
<a href="#">SW03-010</a>	Neem and Papaya Fruit Extracts and Ferric Phosphate for Control of Golden Apple Snail in Wetland Taro: Efficacy Testing	\$31,831	Lance Santo Hawaii Agriculture Research Center Mel Jackson Hawaii Agriculture Research Center
<a href="#">SW03-055</a>	Development of a Sustainable Polyculture and Marketing System for Exotic Tropical Fruits	\$156,800	Richard Bowen Department of Nat Res and Envir Mngt
<a href="#">SW01-066</a>	Nature Farming at Wheeler Elementary	\$13,460	Joe Lee Wheeler Elementary School
<a href="#">SW99-005</a>	Survival of Taro: Agronomic and Pathological Research For Sustainable Production	\$146,700	Janice Uchida Dept. of Plant Pathology, University of Hawaii
<a href="#">SW99-022</a>	Adaptation of a Natural Farming System to Vegetable Farm Production in Hawaii.	\$85,134	Clyde Fukuyama HARC
<a href="#">SW97-001</a>	Management of Soil-borne Plant Parasitic Nematodes for Sustainable	\$21,900	John McHugh Waikele Farms

	Production of Field Grown Tomatoes and Cucumbers by Cover Cropping		
<a href="#">SW96-003</a>	Evaluation of a Perennial Vegetable, Asparagus, as a New Commercial Crop for Hawaiian Farmers	\$49,595	Susan Schenck Hawaiian Agriculture Research Center
<a href="#">LWE92-002</a>	Integrated Hog Farming and Market Gardening for Small Farmers in Tropical Areas of the Western Region	\$36,000	Kent Fleming University of Hawaii at Manoa
<a href="#">LW89-011</a>	A Comparative Study of Low Input and High Input Taro Production in American Pacific with Special Reference to Pest Control	\$258,430	Agnes Vargo American Samoa Community College

#### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">EW18-023</a>	Capacity building for Cooperative Extension in Micronesia to reduce Pacific Island food system vulnerability to climate variability	\$74,858	Clay Trauernicht, Clay Trauernicht University of Hawaii
<a href="#">EW17-004</a>	Breadfruit Agroforestry for Pacific Island Revitalization	\$73,689	Craig Elevitch Permanent Agriculture Resources
<a href="#">EW16-008</a>	Agroforestry Design for Sustainable Production Systems in the U.S.-Affiliated Pacific Islands	\$73,970	Craig Elevitch Permanent Agriculture Resources
<a href="#">EW13-010</a>	Pollinator Use and Management: Training in Sustainable Practices for Ag Professionals	\$65,386	Dr.Ethel Villalobos University of Hawaii
<a href="#">EW11-014</a>	Hawai'i Community-Based Food Security	\$58,520	Craig Elevitch Hawaii Homegrown Food Network
<a href="#">EW08-013</a>	Promoting Adaptive Management With 'Tropic Sun' sunn hemp (Crotalaria juncea) in Hawaii for Ecological Strategies in Weed Control, Nematode Suppression and Nutrient Management	\$53,768	Dr.james leary University of Hawaii at Manoa Dr.Brent Sipes University of Hawaii
<a href="#">EW07-004</a>	New Crops for Pacific Island Agroforestry	\$80,000	Craig Elevitch Permanent Agriculture Resources Craig Elevitch Hawaii Homegrown Food Network
<a href="#">EW05-009</a>	Pacific Island Agroforestry Workshops and Field Visits	\$59,777	Craig Elevitch Permanent Agriculture Resources
<a href="#">EW03-002</a>	New Farmers: Choosing the Road Less Traveled	\$90,000	Samir El-Swaify University of Hawaii MANOA
<a href="#">EW02-001</a>	Species Profiles for Pacific Island Agroforestry	\$94,971	Craig Elevitch Permanent Agriculture Resources
<a href="#">EW00-026</a>	Sustainable Pest Control for the Tropics	\$78,090	Richard Bowen Department of Nat Res and Envir Mngt

<a href="#">EW98-004</a>	Agroforestry Handbooks for Pacific Islands	\$57,885	Craig Elevitch Permanent Agriculture Resources
<a href="#">EW98-012</a>	Covering New Ground: Tropical Cover Crops for Improving Soil Quality	\$84,500	Richard Bowen Department of Nat Res and Envir Mngt
<a href="#">EW97-003</a>	Tools for Sustainability: Sustainable Agriculture Video Training Tapes for the Pacific Islands Region	\$64,295	John Craven Common Heritage
<a href="#">EW96-014</a>	Continuation – “Training Agents” in On-Farm Implementation of Sustainable Management Systems for Tropical Agriculture in Hawaii and the Pacific Region	\$63,623	Po-Yung Lai University of Hawaii
<a href="#">EW94-014</a>	Training “Agents” in On-Farm Implementation of Sustainable Management Systems for Tropical Agriculture in Hawaii and the Pacific Region	\$89,000	Po-Yung Lai University of Hawaii

#### FARMER/RANCHER GRANTS

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#">FW18-034</a>	Can Intensive Rotational Grazing in combination with Indigenous Microorganism Application improve soil condition (i.e., soil carbon, minerals, and microbial life)?	\$19,953	Kyle Fisher Graze and Sprout Farm
<a href="#">FW18-052</a>	A Living Mulch Income Enhancer	\$19,092	Kevin Chan Kevin Chan
<a href="#">FW17-034</a>	The Mango Loa Project	\$19,878	Umi Martin Umi Martin
<a href="#">FW16-003</a>	Establishing Profitable Durian Crops in Hawaii	\$28,192	ken love hawaii tropical fruit growers
<a href="#">FW16-023</a>	Malama Kou Kino	\$20,000	Melanie Holt Real Farm
<a href="#">FW15-035</a>	Producing Triploid Oysters	\$24,992	David Nisbet Goosepoint Oyster Co.
<a href="#">FW12-034</a>	Grapes for tropical Hawaii	\$17,370	ken love hawaii tropical fruit growers
<a href="#">FW10-011</a>	Organic Varroa Management & Beekeeper Education in Hawaii	\$15,000	Richard Spiegel Volcano Island Honey Co.
<a href="#">FW10-040</a>	Relocating swarms for pollination: How feral bees can be integrated into sustainable farming strategies	\$29,975	Jennifer Bach Honeybee Education Program
<a href="#">FW10-056</a>	Use of Cover Crops with Medicinal	\$20,117	Dr.Katherine Pomeroy

	Herbs in North Hawaii		Kohala Medicinal Herb Farm
<a href="#">FW09-025</a>	Maximizing the Utilization of Bamboo in the Hawaiian Islands	\$14,460	Rich von Wellsheim Whispering Winds Bamboo
<a href="#">FW09-027</a>	Evaluating New Windbreaks and Cover Crops for Tropical Fruit Crops	\$12,206	Jane Teves Puakala Farms Jane Teves Puakala Farms
<a href="#">FW09-308</a>	Quantifying Secondary Compounds in Common Pasture Vegetation for Behavior Based Grazing Management in Hawaii	\$41,760	Dr.Mark Thorne University of Hawaii at Manoa
<a href="#">FW09-311</a>	Diversifying Hawai'i Aquaculture with Clam and Oyster Culture	\$50,000	Dr.Maria Haws Pacific Aquaculture and Coastal Resources Center Maria Haws Pacific Aquaculture & Coastal Resources Center
<a href="#">FW09-002</a>	No Chill Stone Fruit for Hawaii	\$9,528	ken love hawaii tropical fruit growers
<a href="#">FW09-004</a>	Integrating Existing Crop and Livestock Enterprises on a Native Hawaiian Homestead Farm	\$12,580	Conrad Aquino Alton Arakaki UH-College of Tropical Agriculture and Human Resources, Cooperative Extension Service
<a href="#">FW09-012</a>	Project Fresh: Mountain View Community Gardens	\$30,000	Neena Roumell Eden Earthworks
<a href="#">FW08-049</a>	Healthy Foundation, Healthy Bees, Making Organic Wax Foundation for Beekeepers	\$13,999	Richard Spiegel Volcano Island Honey Co.
<a href="#">FW07-034</a>	Choosing the Best Figs for Hawaii	\$25,000	ken love hawaii tropical fruit growers
<a href="#">FW05-314</a>	A Superhero without a Cape: Using the Cover Crop Sunn Hemp to Feed the Soil, Suppress Nematodes and Smother Weeds	\$7,716	Hooks Cerruti University of Hawaii
<a href="#">FW04-011</a>	Conversion of Fish Processing Waste to Fish/Animal Feed, Chum and Fertilizer	\$6,695	Takumi Shirakawa Shirakawa Farm
<a href="#">FW03-206</a>	Grow Your Own Sustainable Barn	\$7,396	Robert Layer
<a href="#">FW03-018</a>	Recovery of Tropical Pasture Systems	\$6,875	Dwayne Cypriano
<a href="#">FW03-025</a>	DDT Removal Using Biodynamic Agricultural Methods	\$6,932	Marie Mauger Spirit of the Earth Farm
<a href="#">FW03-205</a>	Field Management/Mulch Project	\$5,232	Fernand Severi

<a href="#">FW02-008</a>	Increasing Marketable Production of Exotic Tropical Fruit with Protective Covering	\$12,850	ken love hawaii tropical fruit growers
<a href="#">FW02-040</a>	Increasing Sustainable Agricultural Production in High Polynesian Islands	\$7,500	Ivona Ballard Whutnutsamoia
<a href="#">FW01-021</a>	Increasing the value of products from small family farms by enriching the culinary experience of the local consumers	\$4,000	Glenn Shinsato Univ of HI
<a href="#">FW00-077</a>	Rejuvenation of a 60 Year Old Lychee Orchard by Pruning and Fertilizer Applications to Maximize Production	\$4,000	Elisabeth Ladoux
<a href="#">FW00-335</a>	An On-Farm Educational Approach to Directly Marketing "the Other White Meat"	\$9,900	Daphne McKeehan
<a href="#">FW99-056</a>	Hot Water Immersion Unit for Disinfestation of Hawaii-Grown Lychee and Longan	\$5,000	Michael Strong
<a href="#">FW99-059</a>	Flower Induction of Rambutan	\$2,100	Liloa Willard
<a href="#">FW99-066</a>	Lone Palm Sprouts Water Recapture and Recycle System	\$5,000	Davide Rotstein
<a href="#">FW98-004</a>	The Conversion of Agricultural Waste into Plant and Fish Food	\$3,400	Robert Gann
<a href="#">FW98-062</a>	Free Range Pork Production	\$5,390	Samuel Okami
<a href="#">FW98-063</a>	Total Utilization of Swine Waste for Crop and Hog Productivity	\$4,985	Rondald McKeehan
<a href="#">FW98-075</a>	High Quality Perennial Forage Peanut (Arachis pintal) Pastures for Sustainable Cattle Production in Hawaii	\$5,000	Zach Gibson
<a href="#">FW97-004</a>	Sustainable Alternatives To Herbicide for Weed Control: Using Cover Crops To Combat Panicum repens and Panicum maximum In Lowland, Eastern Hawaii	\$3,500	Paul Acciavatti Wailea Spring Farm
<a href="#">FW97-017</a>	Growing Ring-Spot Virus-Free Papayas Using Anti-transpirants and Other Sustainable Techniques	\$4,000	Jon Biloon
<a href="#">FW96-049</a>	Sustainable Greenhouse Tomato Production: Evaluating Alternatives to Pesticide Use for Controlling Tomato Pinworm Larvae in Hawaii	\$3,520	Shari Tresky Mariah Farm

**GRADUATE STUDENT GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#">GW18-026</a>	Cover Crop "5-in-1 Approach" for Nematode Management Using Mustard and Oil Radish	\$24,998	Dr.Koon-Hui Wang University of Hawaii Philip Waisen University of Hawaii
<a href="#">GW18-104</a>	Conservation Biological Control of Coffee Berry Borer by Applying Nitrogen Fixing Tree Mulch to Enhance Indigenous Entomopathogenic Nematodes	\$24,948	Dr.Brent Sipes University of Hawaii Christina Martiney University of Hawaii
<a href="#">GW18-014</a>	Conditioning Sheep to Avoid Koa Foilage: An opportunity for productive silvopasteres in Hawaii.	\$24,920	Rebecca Ryals University of Hawaii - Manoa Nicholas Krueger University of Hawaii - Manoa
<a href="#">GW18-187</a>	Quantifying the Environmental Impact of Doubling Hawaii's Local Food Supply	\$21,119	Dr.Kimberly Carlson University of Hawaii Tanya Torres University of Hawaii
<a href="#">GW14-007</a>	Evaluating the Potential of Oyster Mushroom Compost Waste for Plant-Parasitic Nematode Management	\$24,920	Dr.Koon-Hui Wang University of Hawaii Shelby Ching University of Hawaii at Manoa

**ON FARM RESEARCH/PARTNERSHIP GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#">OW18-017</a>	Pest reduction on agricultural lands due to Hawaiian short-eared owls	\$49,755	Dr.Melissa Price University of Hawaii
<a href="#">OW17-037</a>	Successful Cacao Establishment through Improved Soil Management	\$49,789	Jean Brokish Oahu RC&D
<a href="#">OW16-022</a>	Cover Crop Cocktails: Evaluating Costs and Benefits of Mixed-Species Plantings	\$41,606	Jean Brokish Oahu RC&D
<a href="#">OW15-019</a>	Sustainable Pest Management Approaches for High Tunnel Screenhouse Production in the Tropics	\$49,989	Dr.Koon-Hui Wang University of Hawaii
<a href="#">OW13-034</a>	Enhancing the sustainability of grass-fed beef production in Hawaii via carcass and meat quality improvement	\$49,948	Dr.Yong soo Kim University of Hawaii
<a href="#">OW12-041</a>	Effectiveness of Beauveria bassiana on coffee berry borer in different agroclimatic zones	\$49,403	Dr.Elsie Burbano Greco University of Hawaii at Manoa
<a href="#">OW11-310</a>	Master Farmer Workshop Series	\$49,812	Jean Brokish Oahu RC&D
<a href="#">OW11-308</a>	Control of coffee berry borer and increase of coffee yields using Surround WP (kaolin)	\$47,648	Dr.Shawn Steiman Coffea Consulting
<a href="#">OW11-309</a>	Training Livestock to Eat Weeds in the Tropical Pacific and Evaluating the	\$49,610	Matthew Stevenson University of Hawaii



Effects on Meat Quality for Stronger  
Ranch Profits**PDP STATE PROGRAM GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#">WSP17-007</a>	2018 University of Hawaii PDP Project	\$39,000	Dr.Theodore Radovich University of Hawaii, Manoa Jari Sugano University of Hawaii, PEPS

**ENHANCED STATE GRANTS GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#">MW18-005</a>	Virtually There: Enhancing the Online Capacity and Impact of Hawaii Agricultural Professionals	\$24,965	Dr.Theodore Radovich University of Hawaii, Manoa
<a href="#">MW17-007</a>	Hot Shot Hawaii v.2.0: Expanding Hawaii's Agricultural Professionals Capacity to Advance Sustainable and Organic Agriculture Practices in Hawaii	\$24,895	Dr.Theodore Radovich University of Hawaii, Manoa
<a href="#">MW16-005</a>	Deploying SOAP's Hot Shot Team to Identified Hot Spot Locations to Advance Sustainable and Organic Agriculture Practices in Hawaii	\$24,750	Jari Sugano University of Hawaii, PEPS

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**Total funding from the USDA SARE program to  
Hawaii  
\$5,761,833**

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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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