



AGRICULTURE PROJECTS FUNDED IN GUAM

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

Guam has been awarded \$1,933,551 grants to support 46 projects, including but not limited to, 10 research and/or education projects, 7 professional development projects and 22 producer-led projects. Guam has also received additional SARE support through multi-state projects.

RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
SW19-906	Reducing tree decline of Casuarina equisetifolia in Guam through replacement of bacterial wilt infected trees and research into the bacterial microbiomes of trees and associated termites	\$304,273	Dr.Robert Schlub University of Guam
SW09-067	Island to Island, Farmer to Chef: Ag Agricultural Marketing Proposal	\$133,967	Robert Bishop
SW09-304	Replacing Feed Imports With Local Feed Resources in the Western Pacific	\$47,207	Dr.Manuel Duguies Cooperative Extension Service
SW08-067	Decline of Casuarina equisetifolia: A Loss to Pacific Island Agroforestry	\$140,680	Roger Brown, Jr. University of Guam Dr.Robert Schlub University of Guam
SW05-00B	Preservation of Traditional Medicinal Plants on Guam	\$18,615	Dr.L. Robert (Bob) Barber, Jr. University of Guam Cooperative Extension Service
SW02-048	Alternative Housing Structure for Livestock and Poultry in Micronesia	\$26,857	Dr.Manuel Duguies Cooperative Extension Service
SW01-017	Commercial Production of Tropical Mushrooms Grown Organically	\$36,081	George Wall CALSAES, University of Guam
SW99-048	Evaluation and implementation of nitrogen fixing species in hedgerow intercropping in Marianas	\$132,000	Mari Marutani College of Nat. & Appl. Sciences, Univ. of Guam
SW99-047	Strengthening through Education the Sustainability of Solanaceous Crop Production in the Western Pacific Region	\$16,000	Dr.Robert Schlub University of Guam
SW98-041	Evaluation of Processing Food Refuse and By-products for Growing Finishing Swine	\$121,850	Farouq Abawi University of Guam

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
<u>EW14-006</u>	Plant Disease Diagnostic Training for Agricultural Professionals in Guam and the Northern Mariana Islands	\$63,900	Dr.Robert Schlub University of Guam
<u>EW09-012</u>	Increasing Ecological Insect Pest Management on Guam Through Building Agriculture Professionals' Understanding of Semiochemicals	\$59,990	Gadi V.P. Reddy, Ph.D. University of Guam Dr.Michael Ivie Montana State University-Bozeman
<u>EW08-018</u>	Enhancing Ecological Disease Management on Guam Through Building Agriculture professionals' Understanding of Soil Nutrients	\$49,962	Roger Brown, Jr. University of Guam Dr.Robert Schlub University of Guam
<u>EW05-007</u>	Transfer of Research Based Knowledge in Agriculture in the American Pacific	\$74,507	Dr.Manuel Duguies Cooperative Extension Service
<u>EW05-017</u>	Capacity Building and Training in Commercial Aquaculture for Guam, Commonwealth of the Northern Marianas, and American Samoa	\$90,000	Dr.L. Robert (Bob) Barber, Jr. University of Guam Cooperative Extension Service
<u>EW99-002</u>	People Improving Growth for Swine (PIGS) in Micronesia	\$47,540	Dr.Manuel Duguies Cooperative Extension Service
<u>EW98-011</u>	Portable Extension Office for Program Literature Exchange (PEOPLE)	\$41,360	Dr.L. Robert (Bob) Barber, Jr. University of Guam Cooperative Extension Service

FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
<u>FW19-348</u>	Sheet Mulch Using Cardboard and NFTs	\$11,000	Glenn Takai Takai Farm
<u>FW17-014</u>	My Boars Are In Iowa	\$13,597	Eddie Saure Eddie Saure
<u>FW17-050</u>	Ducks in a Row: Raising Ducks on Guam for Production and Pest Control	\$19,206	Maegan Paloma Maegan Paloma
<u>FW16-015</u>	From Peewee to Large Eggs	\$11,393	Alex Coloma Agriculture
<u>FW16-030</u>	Rotating Paddock-style Systems in Tropical Environments	\$17,196	Hertha Van Beurden Paradise Natural Farm
<u>FW15-041</u>	Raising Black Soldier Fly Larvae as Chicken Feed in a Tropical Region	\$8,232	Chelsa Muna-Brecht P.U.N.G.Co Farms
<u>FW08-046</u>	Growing Papaya Using Aquaculture Effluent in an Automated Drip Irrigation System	\$14,800	David Crisostomo
<u>FW08-048</u>	Living Mulch on Guam	\$13,000	Laila Pierson

FW08-313	Kona to Guam Weaving the Farmer Chef Network	\$19,625	Phoebe Wall University of Guam Dr.L. Robert (Bob) Barber, Jr. University of Guam Cooperative Extension Service
FW06-026	Multi-crops on Plant Beds on Guam	\$5,915	Laila Pierson
FW05-003	Wastewater Delivery System for Irrigation and Soil Enrichment on Guam	\$4,570	John Benaventa Triple B Farms
FW05-013	Recycling Fish Waste to Fertilize Guam Farms	\$19,809	Ernie Wusstig
FW05-312	Maximizing Production Efficiency in a Three-Stage Integrated Agriculture System Using Taro, Tilapia, Aquatic Plants and Fancy Guppies	\$9,951	Dr.L. Robert (Bob) Barber, Jr. University of Guam Cooperative Extension Service
FW04-104	Lei Making and Marketing – A New Approach to Marketing	\$6,750	Antoinette Okada
FW04-302	Greenhouse Water Barrier	\$10,871	Pete Terlane Guam Department of Agriculture
FW02-017	Decreasing Dependence on Man-Made Fertilizers for Crop Production in Tropical Limestone Soils	\$5,200	Ernie Wusstig
FW00-064	Adopting Health Programs and Improving Weaning Facilities in Management of Piglet Diarrhea on Guam	\$7,085	Ricardo Cruz, Jr.
FW99-015	Mushroom Production	\$3,950	David Nelson
FW99-031	Genetic Upgrading and Improving Goat Management Practices on Guam	\$6,000	Loella Armstrong
FW97-054	Use of Sunnhemp in Cucumber Production	\$4,300	Felix Quan
FW96-029	Dry-Extrusion of Wet Garbage for Swine Feeding	\$4,350	George Pangelinan
FW96-030	Vegetable Soybean Cultivar Trials	\$3,020	Felix Quan

ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE support	Project Leaders
OW15-031	Seven Trees, Seven Practices:	\$47,899	Dr.L. Robert (Bob) Barber, Jr.

	Demonstrating Agroforestry in the Western Pacific		University of Guam Cooperative Extension Service
OW14-026	Screening tomato varieties for suitability on Guam in response to the arrival of Tomato leaf curl Guam virus in the Western Region	\$49,500	Dr.Robert Schlub University of Guam
OW10-322	Local Feed Formulation for Goats	\$41,485	Dr.Manuel Duguies Cooperative Extension Service

PDP STATE PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
WSP19-029	Guam State/Protectorate WSARE Implementation Project 2019-2020	\$31,250	Dr.L. Robert (Bob) Barber, Jr. University of Guam Cooperative Extension Service Mark Acosta University of Guam, Cooperative Extension
WSP17-006	2018 University of Guam PDP Project	\$39,999.70	Dr.L. Robert (Bob) Barber, Jr. University of Guam Cooperative Extension Service Mark Acosta University of Guam, Cooperative Extension

ENHANCED STATE GRANTS GRANTS

Project #	Project Title	SARE support	Project Leaders
MW19-008	Western Pacific Sustainable Agriculture Participatory Training Network: Eight islands, twelve trainings.	\$48,890	Dr.L. Robert (Bob) Barber, Jr. University of Guam Cooperative Extension Service Mark Acosta University of Guam, Cooperative Extension Jackson Albert College of Micronesia Cooperative Research and Extension Lawrence Duponcheel Northern Marianas College Norman Emanuel Cooperative Research and Extension Chuuk State Mark Googag College of Micronesia Laninbwij Langmos College of Marshall Islands Cooperative Research and Extension Jackson Phillip College of Micronesia Bryan Wichep College of Micronesia
MW17-005	Pacific Island	\$49,918	Dr.L. Robert (Bob) Barber, Jr. University of Guam Cooperative Extension Service

**Total funding from the USDA SARE program to
Guam
\$1,933,551**



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).