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 $389 million to more than 8,542 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...

Federated States of Micronesia

Project Highlight: Training and Outreach for Extension Professionals in Sustainable Capture-based Cage Farming and Hatchery Rearing Methods, of Siganids (Rabbitfishes)

Sustainable, capture-based aquaculture and hatchery rearing methods of Rabbitfish hold promise not only for fisheries management and coral reef conservation, but also for rural aquaculture livelihoods and nutrition. Thirteen species of Rabbitfish can be found in Micronesia, some with traits making them suitable for aquaculture. Those desirable traits include fast growth, schooling behavior, non-aggressive behavior, tolerance of changing temperatures and salinity, tolerance of poor water quality, and good feed conversion.

Understanding this potential for sustainable development, Simon Ellis of Marine Environmental Research Institute of Pohnpei (MERIP) designed a Professional Development Program project aimed toward expanding Rabbitfish aquaculture in the Pacific Islands. The highly collaborative project shared information and resources with agriculture/aquaculture professionals, extension agents, private sector aquaculture entrepreneurs, and sustainable development NGOs in the Micronesia region. The project included a four-day training at MERIP, a study tour for three personnel to Hawaii to train in marine fish hatchery techniques, and an easy to read pictorial manual on raising Rabbitfish.

Ellis is excited about an unexpected outcome of the project.

“The workshop led to a very positive collaboration with the University of Hawaii College of Tropical Agriculture and Hawaii Sea Grant.”

For more information on this project, see sare.org/projects, and search for project number EW18-006.

SARE in Federated States of Micronesia

western.sare.org/sare-in-your-state/federated-states-of-micronesia

$623,863 in total funding

18 grant projects (since 1988)

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

Total awards: **18 grants**
- 5 Professional Development Program
- 8 Farmer/Rancher
- 1 On Farm Research/Partnership
- 4 Research and Education

Total funding: **$623,863**
- $269,621 Professional Development Program
- $124,634 Farmer/Rancher
- $8,047 On Farm Research/Partnership
- $221,561 Research and Education

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/federated-states-of-micronesia](western.sare.org/sare-in-your-state/federated-states-of-micronesia)

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/federated-states-of-micronesia](western.sare.org/state-pages/federated-states-of-micronesia) to learn more.

Engly Ioanis
College of Micronesia
(691) 320-2728
englyioanis@gmail.com

For detailed information on SARE projects, go to [www.SARE.org](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.
Federated States of Micronesia has been awarded $623,863 grants to support 18 projects, including but not limited to, 4 research and/or education projects, 5 professional development projects and 8 producer-led projects. Federated States of Micronesia has also received additional SARE support through multi-state projects.

### RESEARCH AND EDUCATION GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW05-00C</td>
<td>Preservation of Traditional and Medicinal Plants in Micronesia</td>
<td>$36,115</td>
<td>Jim Currie</td>
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<td>College of Micronesia-FSM</td>
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<td>SW05-053</td>
<td>Research and Demonstration on Banana production Technologies in Micronesia</td>
<td>$83,992</td>
<td>Aurora Del Rosario</td>
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<td>Palau Community College</td>
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<tr>
<td>SW01-010</td>
<td>Utilization of Local Feedstuffs for Swine Feeding in the American Pacific</td>
<td>$73,890</td>
<td>Engly Ioanis</td>
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<td>College of Micronesia Land Grant Program</td>
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<td>Cooperative Extension Service</td>
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<tr>
<td>SW99-015</td>
<td>Sustainable Marketing Strategy in Micronesia</td>
<td>$27,564</td>
<td>Aurora Del Rosario</td>
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<td>Palau Community College</td>
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### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

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<tr>
<td>EW18-006</td>
<td>Training and Outreach for Extension Professionals in Sustainable Capture-based Cage Farming and Hatchery Rearing Methods, of Siganids (Rabbitfishes)</td>
<td>$70,447</td>
<td>Simon Ellis</td>
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<td>MERIP</td>
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<td>EW12-036</td>
<td>Training toward Transition of Subsistence Farmers to the Market Economy</td>
<td>$60,000</td>
<td>Jim Currie</td>
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<td>College of Micronesia-FSM</td>
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<tr>
<td>EW11-001</td>
<td>Training in Marine Ornamental Farming for Extension Professionals in Micronesia</td>
<td>$51,050</td>
<td>Simon Ellis</td>
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<td>MERIP</td>
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<td>EW05-004</td>
<td>Training on On-Farm Implementation of Sustainable Management Systems for Tropical Atoll Agriculture in the Marshall Islands</td>
<td>$37,362</td>
<td>Nacanieli Tuivavalagi</td>
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<td>College of the Marshall Islands</td>
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<tr>
<td>EW99-010</td>
<td>Development through &quot;Seeing is Believing&quot;, and &quot;Learning by Doing&quot;</td>
<td>$50,762</td>
<td>Robert Bishop</td>
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### FARMER/RANCHER GRANTS

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<tr>
<td>FW09-302</td>
<td>On-Farm Implementation and Demonstration of Integrated Sustainable Agriculture and Livestock Production Systems for Small-Scale Farmers in Micronesia</td>
<td>$38,220</td>
<td>Dr.Virendra M. Verma</td>
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<td>Northern Marianas College</td>
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</table>
Utilization of the Tilapia Invasive Species as a Low-Cost Protein Feed to Improve Egg Production

Steven Young-Uhk
College of Micronesia

Overcoming the Constraints of Tropical Tomato Production Through Shade Netting and Other Methods

Robert Bishop

Sei Enterprise Inc. Farm Pohnpei Pepper

Sei Uemoto
Sei Enterprises Inc.

Replacing Imported Energy Feeds by Storage of Excess Breadfruit as Out-of-season Pig Feed

Jim Currie
College of Micronesia-FSM

Lamer Fishpond Pilot Test - Demonstration

Steven Young-Uhk
College of Micronesia

Tu Eri Market Sakau Nursery (Recycling of Plant Discards and Animal Wastes)

Kalistus Marquez
Tu Eri Market

Rehabilitation of Degraded Savannah Land

Kesewaol Bishop

ON FARM RESEARCH/PARTNERSHIP GRANTS

<table>
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<td>OW13-138</td>
<td>Savor the Flavors of Palau! Crop - Enterprise Diversification</td>
<td>$8,047</td>
<td>Dr.L. Robert (Bob) Barber, Jr. University of Guam Cooperative Extension Service</td>
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Total funding from the USDA SARE program to Federated States of Micronesia $623,863

For further information on projects, contact Western SARE at (406) 994-4789 or wsare@montana.edu.
Sustainable Agriculture Research and Education (SARE) is funded by USDA’s National Institute of Food and Agriculture (NIFA).