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 $310 million to more than 7,433 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, granteeproduced information products and other educational materials.

SARE: Advancing the Frontier of Sustainable Agriculture in...

Federated States of Micronesia

Project Highlight: Success with Marine Ornamental Farming Training

The people of the Federated States of Micronesia and the Republic of the Marshall Islands have skills and resources for aquaculture, agriculture and agroforestry, but the islands’ economic development lags far behind their potential. According to Simon Ellis, director of the Marine and Environmental Research Institute of Pohnpei, one of the most successful aquaculture enterprises to date has been the farming of marine ornamental invertebrates for home aquariums abroad.

So, Ellis used a SARE grant to expand the area’s ornamental fish farming industry by providing training to the Extension professionals who work with aquaculture operations. The project included a weeklong training and tours of operations, with the aim of improving knowledge and collaboration between Extension, producers and distributors. The training included 15 participants and addressed topics such as production, marketing, shipping, permitting and sustainability.

In an exit survey, all the participants indicated they had a better understanding of the marine ornamental industry, and the majority planned to use their new knowledge in their work. The project created new partnerships between producers and exporters that remained in place at the project’s completion. In 2013, two years into the project, ornamental fish exporters reported record sales, a feat that Ellis does not take complete credit for but one which he thinks the project contributed to.

For more information on this project, see sare.org/projects, and search for project number EW11-001.

SARE in Federated States of Micronesia

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

$688,610 in total funding

19 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: **19 grants**

- 8 Farmer/Rancher
- 1 On Farm Research/Partnership
- 5 Professional Development Program
- 4 Research and Education
- 1 Research to Grass Roots

Total funding: **$688,610**

- $124,634 Farmer/Rancher
- $8,047 On Farm Research/Partnership
- $269,621 Professional Development Program
- $221,561 Research and Education
- $64,747 Research to Grass Roots

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

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 to learn more.

Jackson Phillip
College of FM-FSM
(691) 320-6468
jphillip@comfsm.fm

SARE is funded by the USDA’s National Institute of Food and Agriculture (NIFA).

For detailed information on SARE projects, go to www.SARE.org

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 $688,610 grants to support 19 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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>College of Micronesia-FSM</td>
</tr>
<tr>
<td>SW05-053</td>
<td>Research and Demonstration on Banana production Technologies in Micronesia</td>
<td>$83,992</td>
<td>Aurora Del Rosario</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Palau Community College</td>
</tr>
<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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>College of Micronesia</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dr.Manuel Duguies</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cooperative Extension Service</td>
</tr>
<tr>
<td>SW99-015</td>
<td>Sustainable Marketing Strategy in Micronesia</td>
<td>$27,564</td>
<td>Aurora Del Rosario</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Palau Community College</td>
</tr>
</tbody>
</table>

### RESEARCH TO GRASS ROOTS GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGR20-002</td>
<td>Using washed-up semi-decomposed seagrass in sweet potato cultivation</td>
<td>$64,747</td>
<td>Steven Young-Uhk</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>College of Micronesia</td>
</tr>
</tbody>
</table>

### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MERIP</td>
</tr>
<tr>
<td>EW12-036</td>
<td>Training toward Transition of Subsistence Farmers to the Market Economy</td>
<td>$60,000</td>
<td>Jim Currie</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>College of Micronesia-FSM</td>
</tr>
<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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MERIP</td>
</tr>
<tr>
<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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>College of the Marshall Islands</td>
</tr>
<tr>
<td>EW99-010</td>
<td>Development through “Seeing is Believing”, and “Learning by Doing”</td>
<td>$50,762</td>
<td>Robert Bishop</td>
</tr>
</tbody>
</table>

### FARMER/RANCHER GRANTS
### ON FARM RESEARCH/PARTNERSHIP GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Northern Marianas College</td>
</tr>
<tr>
<td>FW09-312</td>
<td>Utilization of the Tilapia Invasive Species as a Low-Cost Protein Feed to Improve Egg Production</td>
<td>$29,892</td>
<td>Steven Young-Uhk</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>College of Micronesia</td>
</tr>
<tr>
<td>FW08-008</td>
<td>Overcoming the Constraints of Tropical Tomato Production Through Shade Netting and Other Methods</td>
<td>$13,578</td>
<td>Robert Bishop</td>
</tr>
<tr>
<td>FW07-028</td>
<td>Sei Enterprise Inc. Farm Pohnpei Pepper</td>
<td>$12,000</td>
<td>Sei Uemoto</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Sei Enterprises Inc.</td>
</tr>
<tr>
<td>FW06-307</td>
<td>Replacing Imported Energy Feeds by Storage of Excess Breadfruit as Out-of-season Pig Feed</td>
<td>$16,712</td>
<td>Jim Currie</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>College of Micronesia-FSM</td>
</tr>
<tr>
<td>FW04-311</td>
<td>Lamer Fishpond Pilot Test &amp; Demonstration</td>
<td>$6,572</td>
<td>Steven Young-Uhk</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>College of Micronesia</td>
</tr>
<tr>
<td>FW01-028</td>
<td>Tu Eri Market Sakau Nursery (Recycling of Plant Discards and Animal Wastes)</td>
<td>$4,160</td>
<td>Kalistus Marquez</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tu Eri Market</td>
</tr>
<tr>
<td>FW99-079</td>
<td>Rehabilitation of Degraded Savannah Land</td>
<td>$3,500</td>
<td>Kesewaol Bishop</td>
</tr>
</tbody>
</table>

**Total funding from the USDA SARE program to Federated States of Micronesia**

$688,610

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).