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 $307 million to more than 7,384 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.

American Samoa

Project Highlight: A Better Model for Tilapia Production

In American Samoa, where economic opportunities are limited and imported goods are expensive, farmers must seek out ways to produce food in low-cost, environmentally sustainable systems. Tilapia, a freshwater fish, has been popular there for decades, and to address food security by using local inputs, tilapia farmers are looking increasingly to integrated aquaculture systems.

Using SARE grants, two farmers belonging to the Samoan Family Sun Fish Co-op built new systems to test and show to the local community. To reduce the amount of land, water and feed needed for a successful system, Troy Fiaui converted his tilapia tanks to greenwater aquaculture. This practice recirculates water, and the fish waste flows to banana and taro fields as a source of nutrients.

A second farmer, Joseph Fuamatu, also built a demonstration greenwater hatchery with SARE funding. His demonstration project was used to teach sex identification, spawning practices, larval rearing, feeding and broodstock management. Fuamatu found that people from his village, after observing the technology, agreed that raising tilapia in tanks is possible and better for the environment than catching fish with a spear gun, which also destroys the coral. The tanks used by Fiaui and Fuamatu help feed their families and villages, and provide the community with an important model for tilapia production. For more information on these projects, see sare.org/projects, and search for project numbers FW07-035 and FW07-036.

SARE in American Samoa

western.sare.org/sare-in-your-state/american-samoa

$345,061 in total funding

36 grant projects

(since 1988)

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

Total awards: 36 grants
- 33 Farmer/Rancher
- 2 Professional Development Program
- 1 Research and Education

Total funding: $345,061
- $182,041 Farmer/Rancher
- $71,170 Professional Development Program
- $91,850 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/american-samoa

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/american-samoa to learn more.

Ian Gurr
American Samoa Community College
ig1213@yahoo.com

USDA Sustainable Agriculture Research & Education

For detailed information on SARE projects, go to 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.
AGRICULTURE PROJECTS FUNDED IN AMERICAN SAMOA
by USDA's Sustainable Agriculture Research and Education (SARE) Program

American Samoa has been awarded $345,061 grants to support 36 projects, including but not limited to, 1 research and/or education project, 2 professional development projects and 33 producer-led projects. American Samoa 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>SW97-013</td>
<td>Blueprinting Traditional Sustainable Food Production Systems of Samoa in Development of a Research/Extension Model</td>
<td>$91,850</td>
<td>Wayne A. Frank American Samoa Community College</td>
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PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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<tbody>
<tr>
<td>EW97-018</td>
<td>Constructing a Herbarium, Collection and Key to Medicinal and Other Traditional Plants of Samoa</td>
<td>$15,510</td>
<td>Don Vargo American Samoa Community College</td>
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FARMER/RANCHER GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>FW19-352</td>
<td>Agricultural productivity of Kratky's non-circulating hydroponics method in cropping specialty vegetables for limited resource grower in Manu’a.</td>
<td>$17,000</td>
<td>Toni Leano Mauna Lata Creative Farm</td>
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<tr>
<td>FW18-035</td>
<td>Comparative Benefits of using Chicken Tractors in Banana Plantations in American Samoa</td>
<td>$19,231</td>
<td>Sagaia Lefee Sagaia Lefee</td>
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<tr>
<td>FW16-029</td>
<td>Alternative Vegetable Crops and Production Methods for American Samoa</td>
<td>$15,202</td>
<td>Ivona Ballard Whutnutsamoa Ian Gurr</td>
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<tr>
<td>FW07-035</td>
<td>Sustainable Tilapia Aquaculture Production Demonstration Facility</td>
<td>$9,148</td>
<td>Troy Fiaui</td>
</tr>
<tr>
<td>FW07-036</td>
<td>Model Small-Scale Greenwater Tilapia Hatchery Facility</td>
<td>$9,969</td>
<td>Joseph Fuamatu</td>
</tr>
<tr>
<td>FW05-015</td>
<td>Small-Scale Aquaponic Demonstration System in American Samoa</td>
<td>$10,000</td>
<td>Malo Paleso'o</td>
</tr>
<tr>
<td>FW04-032</td>
<td>Using Portable Chicken Farming to Improve Home Vegetable Garden</td>
<td>$1,570</td>
<td>Lusia Leofili</td>
</tr>
</tbody>
</table>
**FW04-204**  Organic Vegetable Farming in American Samoa  $2,496  Lina Tuifalasia

**FW03-005**  Vermicomposting of Animal and Organic Wastes  $5,500  Futi Semanu

**FW03-026**  Growing Future Banana for Samoa  $2,951  Alatise Fonoti

**FW02-012**  Medicinal Plants of Samoa—preventing extinction through survey  $12,215  Ionataua Faasaulu

**FW02-047**  Pigsty and Planting  $6,726  Mack Memea

**FW02-048**  Reducing African Snail Damage to Yams in American Samoa  $3,955  Malo Paleso'o

**FW01-069**  Piggery Waste Management  $5,000  Faapaia Maiava

**FW00-205**  Expanding the Marketing Outlets of Local Traditional, Vegetable and Fruit Crops in American Samoa  $4,935  Malo Paleso'o

**FW99-026**  Ava Samoa  $2,004  Lualima Siagatonu

**FW99-027**  Amalau Valley Fruit Tree and Native Tree Nursery  $2,463  Matautu Tagoilelagi

**FW99-030**  Self-Sustaining Swine Production Operation  $4,500  Juan Chan

**FW99-037**  Effect of Pesticides vs. Traditional Treatments for Banana Scab Moth in American Samoa  $1,600  Rosaline Liu

**FW99-109**  Giant Clam Project  $4,519  William Haretuku

**FW99-001**  Canco Hill Screen House  $1,400  Naotala M. Tuli

**FW99-023**  Tilapia Farm — Aoloau  $3,225  Ioelu Seve

**FW99-025**  Leone Greenhouse  $1,500  Mark Kneubuhl

**FW98-021**  Samoa Department of Agriculture Community Nutritional Support Group  $4,646  Litani Ahoia

**FW98-036**  Brewster Area-wide Management (BAM) — Low Impact Control of Codling Moth and Leafroller in Apples  $10,000  Jim Davis
<table>
<thead>
<tr>
<th>Code</th>
<th>Project Description</th>
<th>Cost</th>
<th>Contact Person</th>
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<tbody>
<tr>
<td>FW98-055</td>
<td>Onoanua Eel and Tilapia Farm</td>
<td>$2,210</td>
<td>Alosina Toamalatai</td>
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<tr>
<td>FW98-056</td>
<td>Piggery Deep Litter System</td>
<td>$2,975</td>
<td>Nikolao Mageo</td>
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<tr>
<td>FW98-057</td>
<td>Beef Cattle Pasture Management Project</td>
<td>$2,900</td>
<td>Ma'ataura Te'o</td>
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<tr>
<td>FW97-039</td>
<td>Continuation of a Sustainable Agroforestry System</td>
<td>$2,315</td>
<td>Malo Paleso'o</td>
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<tr>
<td>FW96-079</td>
<td>Pig Manure Control and Utilization Project</td>
<td>$5,000</td>
<td>Tovia Tuli</td>
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<tr>
<td>FW95-103</td>
<td>Composting Farm and Kitchen Wastes in American Samoa</td>
<td>$721</td>
<td>Juan Chan</td>
</tr>
<tr>
<td>FW95-105</td>
<td>Development of a Sustainable Agroforestry System</td>
<td>$2,765</td>
<td>Malo Paleso'o</td>
</tr>
<tr>
<td>FW95-106</td>
<td>Controlling the Banana Scab Moth Caterpillar in American Samoa</td>
<td>$1,400</td>
<td>Fetalai Lefee</td>
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</tbody>
</table>

**Total funding from the USDA SARE program to American Samoa**

$345,061

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).