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 $332 million to more than 7,748 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...

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**
- 2 Professional Development Program
- 33 Farmer/Rancher
- 1 Research and Education

Total funding: **$345,061**
- $71,170 Professional Development Program
- $182,041 Farmer/Rancher
- $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

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.
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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</table>

### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

<table>
<thead>
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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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</tbody>
</table>

### FARMER/RANCHER GRANTS

<table>
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<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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<tbody>
<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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<tbody>
<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 American Samoa Communiy College-Agriculture, Community and Natural Resources</td>
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</tbody>
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<tbody>
<tr>
<td>FW07-035</td>
<td>Sustainable Tilapia Aquaculture Production Demonstration Facility</td>
<td>$9,148</td>
<td>Troy Fiaui</td>
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<tbody>
<tr>
<td>FW07-036</td>
<td>Model Small-Scale Greenwater Tilapia Hatchery Facility</td>
<td>$9,969</td>
<td>Joseph Fuamatu</td>
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<tbody>
<tr>
<td>FW05-015</td>
<td>Small-Scale Aquaponic Demonstration System in American Samoa</td>
<td>$10,000</td>
<td>Malo Paleso'o</td>
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<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>
Organic Vegetable Farming in American Samoa $2,496 Lina Tuifalasia

Vermicomposting of Animal and Organic Wastes $5,500 Futi Semanu

Growing Future Banana for Samoa $2,951 Alatise Fonoti

Medicinal Plants of Samoa — preventing extinction through survey $12,215 Ionataua Faasaualu

Pigsty and Planting $6,726 Mack Memea

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

Piggery Waste Management $5,000 Faapaia Maiava

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

Giant Clam Project $4,519 William Haretuku

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

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

Canco Hill Screen House $1,400 Naotala M. Tuli

Tilapia Farm — Aoloau $3,225 Ioelu Seve

Leone Greenhouse $1,500 Mark Kneubuhl

Ava Samoa $2,004 Lualima Siagatonu

Amalau Valley Fruit Tree and Native Tree Nursery $2,463 Matautu Tagoilelagi

Samoa Department of Agriculture Community Nutritional Support Group $4,646 Litani Ahoia

Brewster Area-wide Management (BAM) — Low Impact Control of Codling Moth and Leafroller in Apples $10,000 Jim Davis
FW98-055  Onenoa Eel and Tilapia Farm  $2,210  Alosina Toamalatai

FW98-056  Piggery Deep Litter System  $2,975  Nikolao Mageo

FW98-057  Beef Cattle Pasture Management Project  $2,900  Ma'ataura Te'o

FW97-039  Continuation of a Sustainable Agroforestry System  $2,315  Malo Paleso'o

FW96-079  Pig Manure Control and Utilization Project  $5,000  Tovia Tuli

FW95-106  Controlling the Banana Scab Moth Caterpillar in American Samoa Through Cultural Methods  $1,400  Fetalai Lefee

FW95-105  Development of a Sustainable Agroforestry System  $2,765  Malo Paleso'o

FW95-103  Composting Farm and Kitchen Wastes in American Samoa  $721  Juan Chan

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).