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 $360 million to more than 8,167 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: *Agricultural productivity of Kratky's non-circulating hydroponics method in cropping specialty vegetables for limited resource growers in Manu'a*

Growing vegetables hydroponically, such as bok choy or lettuce, can improve access to fresh produce in remote communities dependent on imported food. Additionally, the quality of locally grown produce can be higher than imported produce that can wilt during shipping.

A Western SARE funded project in American Samoa researched and quantified benefits of a non-circulating hydroponics system for limited-resource growers. Later demonstrations to farmers, village groups and government agencies, as well as a companion Teachers Hydroponics Resource Kit, documented a modern method of farming - while raising awareness of healthy lifestyles, developments in sustainable agriculture, and food security.

The project, led by Toni Leano of Maun’a Leta Creative farm, found the benefits to be:

- Crop yields higher than using conventional growing methods
- Better protection from pests
- Protection from extreme weather, such as heavy rain
- Ability to supply and monitor required nutrients easily
- Easy to adopt system for limited resource growers
- Provide access for local communities to fresh nutritious food

For more information on this project, see [sare.org/projects](http://sare.org/projects), and search for project number FW19-352.

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](http://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</td>
<td>$91,850</td>
<td>Wayne A. Frank</td>
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<td></td>
<td>in Development of a Research/Extension Model</td>
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<td>American Samoa Community College</td>
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<td>EW07-002</td>
<td>Sustainable Fruit and Vegetable Production in American Samoa: Protecting</td>
<td>$55,660</td>
<td>Amio Mavaega-Luvu</td>
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<td></td>
<td>Your Health and the Health of Your Land with Integrated Pest Management and</td>
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<td>ASCC-Land Grant</td>
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<td>Soil Conservation</td>
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<td>Amio Mavaega-Luvu</td>
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<td>American Samoa RC&amp;D Council</td>
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<td>EW97-018</td>
<td>Constructing a Herbarium, Collection and Key to Medicinal and Other</td>
<td>$15,510</td>
<td>Don Vargo</td>
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<td>Traditional Plants of Samoa</td>
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<td>American Samoa Community College</td>
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### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
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<tr>
<td>FW19-352</td>
<td>Agricultural productivity of Kratky’s non-circulating hydroponics method</td>
<td>$17,000</td>
<td>Toni Leano</td>
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<td>in cropping specialty vegetables for limited resource grower in Manu’a.</td>
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<td>Mauna Lata Creative Farm</td>
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<td>FW18-035</td>
<td>Comparative Benefits of using Chicken Tractors in Banana Plantations in</td>
<td>$19,231</td>
<td>Sagaia Lefee</td>
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<td></td>
<td>American Samoa</td>
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<td>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</td>
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<td>Whutnutsamoa</td>
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<td>Ian Gurr</td>
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<td>American Samoa Communiy College-Agriculture,</td>
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<td></td>
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<td>Community and Natural Resources</td>
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<tr>
<td>FW07-035</td>
<td>Sustainable Tilapia Aquaculture Production Demonstration Facility</td>
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<td>Troy Fiaui</td>
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<td>FW07-036</td>
<td>Model Small-Scale Greenwater Tilapia Hatchery Facility</td>
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<td>Joseph Fuamatu</td>
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<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>
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</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 Faasaulau

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
Onenoa Eel and Tilapia Farm
FW98-055
$2,210
Alosina Toamalatai

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

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

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

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

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

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

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

Total funding from the USDA SARE program to American Samoa
$345,061

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).