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.

www.sare.org

Project Highlight: Appropriate Technology and Cooperative Marketing to Increase Root Crop Production on Alaska’s Kenai Peninsula

The Kenai Peninsula is the fastest-growing agricultural region in Alaska, with the number of farms increasing at nearly three times the rate of the rest of the state. But most of those farms are small - less than five acres - and selling direct to consumers at farmers markets or to local restaurants.

The Kenai Soil and Water Conservation District commissioned a study, completed in early 2017, that found for growers there to expand their distribution, they need to increase their production and look at coordinating marketing and distribution. The study also looked at potential cash crops. Potatoes were one of the crops identified.

The problem for small growers, however, isn’t how well potatoes grow. It’s how much work they are to harvest when you’re digging them up by hand with a pitchfork.

So, as a first step to expanding production and exploring cooperative marketing and distribution on the Kenai, the conservation district tested – and now rents out – a single-row potato digger and tub washer at a very reasonable rate.

It’s already paying off for the Alaskan farmers, where labor is always in short supply. One grower reduced his harvest and processing time from seven days to less than two. There is a four- to six-week window for harvest that allow the region’s growers to share the single machine.

For more information on this project, see sare.org/projects, and search for project number OW18-029.

SARE in Alaska

western.sare.org/sare-in-your-state/alaska

$915,958 in total funding

32 grant projects

(since 1988)

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

Total awards: 32 grants
- 4 Research and Education
- 2 Professional Development Program
- 18 Farmer/Rancher
- 3 Graduate Student
- 5 On Farm Research/Partnership

Total funding: $915,958
- $341,030 Research and Education
- $82,317 Professional Development Program
- $214,481 Farmer/Rancher
- $59,646 Graduate Student
- $218,484 On Farm Research/Partnership

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/alaska

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/alaska to learn more.

Casey Matney
University of Alaska Fairbanks
9079072623443
camatney@alaska.edu

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.

For detailed information on SARE projects, go to www.SARE.org
The Sustainable Agriculture Research and Education (SARE) Program has awarded Alaska $915,958 in grants to support 31 projects, including 3 research and/or education projects, 2 professional development projects and 18 producer-led projects. Alaska 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>SW10-901</td>
<td>Building Alaska Garden Soils from the Ground Up: Local Soils Research and Demonstration Projects</td>
<td>$48,497</td>
<td>Dr. Stephen Sparrow, University of Alaska Fairbanks</td>
</tr>
<tr>
<td>SW06-111</td>
<td>Fruit and Berry Tree Crop Trial Program for Native Alaskan Rural Communities in Interior Alaska</td>
<td>$193,324</td>
<td>Kendra Calhoun, Cooperative Extension Service, University of Alaska Fairbanks, Robert Wheeler, Alaska Cooperative Extension Service, Dr. Meriam Karlsson, University of Alaska</td>
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<tr>
<td>SW97-012</td>
<td>No-till Forage Establishment to Improve Soil and Water Conservation and Reduce Associated Production Risks</td>
<td>$99,209</td>
<td>Dr. Stephen Sparrow, University of Alaska Fairbanks, Raymond Gavlak, University of Alaska Fairbanks</td>
</tr>
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</table>

### 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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</thead>
<tbody>
<tr>
<td>EW15-022</td>
<td>High tunnels at High Latitudes: Sustainable Crop Production for Alaska</td>
<td>$32,315</td>
<td>Dr. Casey Matney, University of Alaska Fairbanks</td>
</tr>
<tr>
<td>EW10-024</td>
<td>Educating Alaska Agriculture Professionals on Sustainable High Latitude Horticulture Production Practices</td>
<td>$50,002</td>
<td>Jeff Smeenk, University of Alaska Fairbanks, Dr. Milan Shipka, University of Alaska Fairbanks</td>
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</tbody>
</table>

### 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>FW23-432</td>
<td>Viability of all-season Greenhouses for Interior Alaska Using Geodesic Domes and Vertical Hydroponics</td>
<td>$25,000</td>
<td>Michael Harrington, The Magic Gardenbus LLC</td>
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<tr>
<td>FW23-415</td>
<td>Determining the Productivity Benefits of Two Novel Kelp Farming Systems</td>
<td>$24,868</td>
<td>Melissa Skye Steritz, Noble Ocean Farms</td>
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<tr>
<td>FW23-410</td>
<td>Using Flowering Cover Crops to Attract Natural Predators of Floriculture Pests</td>
<td>$25,000</td>
<td>Meridith Rooney, Brown Dog Farm</td>
</tr>
<tr>
<td>FW20-361</td>
<td>Alaska vegetable production using a high residue cover crop system to reduce erosion and decrease weeds</td>
<td>$12,300</td>
<td>Jeff Smeenk, Alaska Specialty Crops</td>
</tr>
</tbody>
</table>
FW13-149  Selection and Propagation of Bog Blueberry Plants for Alaskan Food Security $14,688  Charles Knight Knight Farms

FW12-046  Monitoring Impacts of High Tunnels on Growing Conditions and Season Extension in Southcentral Alaska $19,615  Rachel Lord Alaska Stems (formerly Harambee Gardens)

FW10-007  Using high tunnels to provide peony with a longer growing season to increase productivity in northern latitudes and cold soils $14,751  Jan Hanscom Polar Peonies, LLC

FW08-017  Weed Management and Soil Fertility on a Sub-Arctic Farm $14,803  Michael Emers Rosie Creek Farm

FW04-103  Kuskokwim Native Association Farm Vegetable Marketing Project $3,750  Diana Lehman Kuskokwim Native Association

FW02-045  Propagation of Alaska Native Plants for Landscape and Restoration Use $7,500  Michael Emers Rosie Creek Farm

FW02-004  Sub-Arctic Top-Bar-Hive Beekeeping and Natural Honeycomb Production Combined with the Introduction of New Winter Hardy Red Raspberry Cultivars $3,129  Lance Gillette

FW00-050  Propagation of Alaska Native Plants for Restoration and Landscape Use $5,000  Michael Emers Rosie Creek Farm

FW99-021  Development of Late Blight Forecasting Model $6,078  Bob Boyd

FW98-064  Propagation of Indigenous Lingonberry Species for Sustainable Development $5,000  Vickie Talbot

FW97-026  Growing American and Korean Ginseng in Alaska $5,000  David C. Smith

FW96-082  Establish More Efficient and Biological Practice for Bringing Forest Land into Agricultural Use through Sustainable Development Using Indigenous Species for Alaska $3,000  Vickie Talbot

FW95-111  Establish More Efficient and Biological Practice for Bringing Forest Land into Agricultural Use Through Sustainable Development Using Indigenous Species in Alaska $5,000  Vickie Talbot

GRADUATE STUDENT GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| GW15-015  | Exploring the Importance of Locally Sourced Food in Remote Regions: insights from community supported agriculture in the Tanana Valley of Alaska | $24,970      | Joseph Little  
UAF  
Anastasia Thayer  
University of Alaska Fairbanks |
| GW15-005  | Sustainable Livestock Production on the Frontier: Plant and Soil Responses to Simulated Managed Grazing in Sub-Arctic Alaska | $24,329      | Dr. Janice Rowell  
University of Alaska Fairbanks  
Laura Starr  
SNRES - UAF |
GW07-013  Community Supported Gardening and Food Security in Rural Alaska  $10,347  S. Craig Gerlach  University of Alaska Fairbanks  Philip Loring  University of Alaska Fairbanks

ON FARM RESEARCH/PARTNERSHIP GRANTS

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>OW18-029</td>
<td>Appropriate Technology and Cooperative Marketing to Increase Root Crop Production on Alaska’s Kenai Peninsula</td>
<td>$21,631</td>
<td>Heidi Chay</td>
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<td></td>
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<td>Kenai Soil and Water Conservation District</td>
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<tr>
<td>OW18-031</td>
<td>The use of modified insect traps to attract essential native pollinators into greenhouses and increase pollination success</td>
<td>$49,177</td>
<td>Aleya Brinkman</td>
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<tr>
<td></td>
<td></td>
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<td>Fairbanks Soil and Water Conservation District</td>
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<tr>
<td>OW16-031</td>
<td>Building Leadership Capacity with Rural Alaskan Youth</td>
<td>$49,355</td>
<td>Greg Finstad</td>
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<td>University of Alaska Fairbanks</td>
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<tr>
<td>OW15-030</td>
<td>Insect IPM Protocols for Fresh Cut Peonies: Protecting a New Alaskan Export Crop</td>
<td>$48,872</td>
<td>Gino Graziano</td>
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<td>University of Alaska Fairbanks, Cooperative Extension Service</td>
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<tr>
<td>OW14-040</td>
<td>Interior Alaska Hay Field Renovation Project</td>
<td>$49,449</td>
<td>Brian Atkinson</td>
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<td>Fairbanks Soil &amp; Water Conservation District</td>
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<td>Jessica Guritz</td>
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<td>Fairbanks Soil and Water Conservation District</td>
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Total funding from the USDA SARE program to Alaska  $915,958

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).