

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 \$406 million to more than 8,803 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

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

Project Highlight: *Insect Pathogens Control Clover Pest*

Red clover seed is produced commercially in western Oregon and Washington, and one of its major pests is the clover root borer. The clover root borer develops underground in the roots of red clover and controlling it has proven to be very difficult. Growers once used toxic organochlorine insecticides to battle the borer, but they have been banned from use. Since then, growers have seen a return of the root borer and typically manage it by rotating fields every two years.

With SARE funding, Oregon State University graduate student Anis Lestari studied whether insect pathogens, in particular naturally occurring fungi, have potential as biocontrol agents for controlling the root borer. Lestari collected clover root borers from four local Willamette Valley farms and isolated and identified pathogens associated with adults and larvae. She compared their virulence against the pest with commercially available microbial products and found that entomopathogenic fungi (a fungus that can act as a parasite) have the potential for use as a biological control of the clover root borer in western Oregon red clover fields.

More research and validation are needed before official recommendations can be made, but Lestari's promising results show that a sustainable method for controlling the clover root borer is possible.

For more information on this project, see sare.org/projects, and search for project number [GW15-018](#).

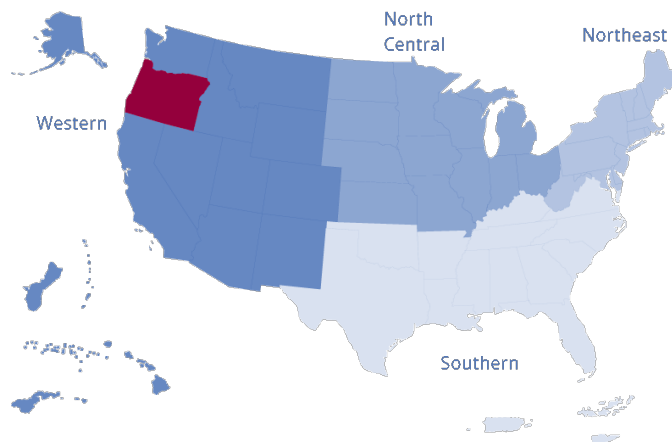
SARE in Oregon

western.sare.org/state-profiles/oregon/

\$5,108,156
in total funding

64 grant project
(since 1988)

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



SARE in Oregon

Grants awarded 2019-2024

Total awards: **64 grants**

- 16 Farmer/Rancher
- 6 Research and Education
- 11 Professional Development Program
- 15 On Farm Research/Partnership
- 13 Graduate Student
- 3 Research to Grass Roots

Total funding: **\$5,108,156**

\$377,000	Farmer/Rancher
\$2,059,573	Research and Education
\$1,072,216	Professional Development Program
\$1,032,655	On Farm Research/Partnership
\$367,439	Graduate Student
\$199,273	Research to Grass Roots

Find a complete list of projects on page 3.

Farmer and rancher impacts 2019-2024

SARE grantees have reported the following impacts from their projects:

9,886 farmers participated in a SARE-funded project

2,954 farmers reported a change in knowledge, awareness, skills or attitude

328 farmers changed a practice



Learn about local impacts at:
western.sare.org/sare-in-your-state/oregon/

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-profiles/oregon/ to learn more.

Shayan Ghajar
Oregon State University
(541) 737-6131
shayan.ghajar@oregonstate.edu

Maud Powell
Oregon State University
(541) 776-7371
maud.powell@oregonstate.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



AGRICULTURE PROJECTS FUNDED IN OREGON

by USDA's
Sustainable Agriculture Research and Education (SARE) Program

Oregon has been awarded \$14,127,426 grants to support 214 projects, including but not limited to, 46 research and/or education projects, 34 professional development projects and 77 producer-led projects. Oregon has also received additional SARE support through multi-state projects.

RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE Support	Project Leaders
SW23-945	Optimizing Soil Carbon Sequestration in Oregon Seed Production Systems	\$348,415	Jennifer Moore USDA-ARS Steve Del Grosso USDA-ARS Soil Management and Sugarbeet Research Unit Daniel Manter USDA-ARS Soil Management and Sugarbeet Research Unit Christy Tanner Oregon State univeristy Kristin Trippe USDA-ARS
SW23-956	The Blossom End Rot Toolkit	\$312,490	James Myers Oregon State University Matthew Davis Oregon State University
SW21-928	Bridging the communication gap: toward a more informed public understanding of sustainable farming	\$348,841	Clare Sullivan Oregon State University Michael Rozyne Red Tomato Julie Sweetland FrameWorks Institute
SW20-914	Model-Assisted Forest Stand Delineation to Make Forest Assessment, Valuation, and Management Planning More Accessible	\$349,981	David Diaz Ecotrust Nils Christoffersen Wallowa Resources Dr.Gregory Ettl University of Washington, School of Environmental and Forest Sci Kirk Hanson Northwest Natural Resource Group
SW20-917	Production and marketing of dry-farmed tomatoes in Oregon	\$349,875	Dr.ALEXANDRA STONE Oregon State University
SW19-903	Bee Protection Protocols for Oregon Vegetable and Clover Seed.	\$349,971	Dr.Andony Melathopoulos Oregon State University

SW18-057	Evaluation of Best Production Practices for Olive (<i>Olea europaea</i>) in Oregon. Part I	\$193,575	Heather Stoven Oregon State University
SW18-041	Sustaining Oregon broccoli production	\$229,804	James Myers Oregon State University
SW16-010	Impacts of Chaff Collection or Chaff Plus Straw Collection at Harvest to Improve Weed Control	\$250,000	Dr.Judit Barroso Oregon State University
SW16-070	Soil solarization as a tool to control weeds and soilborne pathogens in tree seedling nurseries in the Pacific Northwest	\$247,329	Dr.Jennifer Parke Oregon State University
SW15-021	Diagnosis and Management of a New Disease of Cucurbits in Oregon	\$145,291	Dr.ALEXANDRA STONE Oregon State University
SW15-058	Understanding Pest and Disease Transmission Dynamics and Effects of Agrochemicals on Honey Bee Colonies Pollinating Crops in the Western States	\$248,025	Dr.Ramesh Sagili Oregon State University
SW13-017	Integrating research and practice in systems management of organic vegetable farms	\$277,430	Dr.ALEXANDRA STONE Oregon State University
SW12-037	A Collaborative Phenology Modeling System to Enhance Crop Management on Vegetable Farms	\$203,610	Nick Andrews Oregon State University
SW10-103	Developing a Decision Support Tool for Ventenata IPM in the Inland Northwest	\$169,297	Dr.Timothy Prather University of Idaho
SW10-143	Growing a Sustainable Portland Metropolitan Foodshed	\$223,014	Dr.Sheila Martin Portland State University, IMS
SW09-031	Bean Mold Management Tools and Rotational Systems Management Planning	\$184,084	Dr.ALEXANDRA STONE Oregon State University
SW09-062	Integrating Beetle Habitat into Pacific Northwest Farming Systems	\$206,002	John Lambrinos Dept. of Horticulture, Oregon State University

SW09-703	Expanding Small-scale Grain Production in Southwestern Oregon	\$24,402	Maud Powell OSU Extension Shelley Elkovich OSU Extension Small Farms
SW08-056	Enhancement of pollination by native bees in blueberries and cranberries	\$183,271	Dr.Sujaya Rao Oregon State University
SW08-121	Sustainable Solutions to IYSV on Onion Via Grower-Research Partnerships	\$177,527	Clinton Shock Oregon State University
SW05-061	Alternative proteins for organic meat and milk production	\$63,565	Mike Gamroth Oregon State University
SW05-077	Farmers facilitating the adoption of new meadowfoam establishment practices	\$67,078	George Hoffman Oregon State University
SW05-091	Integrated Soil and Crop Management for Organic Potato Production	\$196,067	Dr.Dan Sullivan Oregon State University Lane Selman Dept of Horticulture
SW04-072	Managing Cover Crop and Conservation Tillage Systems To Enhance Vegetable Crop Yields, Economic Returns and Environmental Quality	\$182,438	John Luna Oregon State University
SW03-033	Management of Garden Symphylans (Scutigerella immaculata Newport) with Crop Rotation Tactics and Improved Sampling Methods	\$160,132	Jon Umble Oregon State University
SW02-017	The Use of Straw Mulch to Enhance Predator Populations Along with Biopesticides to Control Onion Thrips in Dry Bulb Onions	\$73,800	Lynn Jensen Oregon State University
SW02-050	"MagNet": A Positive Pull Toward Integrated Pest Management in Root Crop Production.	\$134,829	Amy Dreves Oregon State University; Dept of Horticulture
SW02-052	Changing Meadowfoam Planting Dates and Planting Method to Reduce Input Costs, Pest Pressure, and Increase Yields.	\$100,726	Dr.Gary Jolliff Oregon State University
SW01-061	Farmer/Scientist Partnership for Integrated Cropping Systems	\$184,662	Richard Dick Oregon State University

SW00-00C	Sustainable Agriculture Learning Initiative	\$29,200	Jon Bailey Learning Initiative/CRA; Center for Rural Affairs
SW00-016	Orchard floor management practices for improving soil quality and optimizing nitrogen uptake efficiency	\$130,330	Anita Azarenko OSU - Dept. of Horticulture
SW00-024	Farmers Growing the Market with TFA-Approved	\$100,000	Deborah J. Kane The Food Alliance
SW00-039	Control of Botrytis by Compost Tea Applications on Grapes in Oregon Vineyards	\$141,572	Shepard Smith Sunbow Farm/Soil Foodweb Inc Elaine Ingham Soil Foodweb Inc/ Southern Cross University Elaine Ingham Sustainable Studies Institute
SW00-047	Control of Eastern Filbert Blight	\$81,477	Jay Pscheidt Department of Botany and Plant Pathology
SW99-061	Enhancing Biological Control With Insectary Plantings	\$83,929	John Luna Oregon State University
SW99-063	Participatory Evaluation of Farmer Based Soil Quality Assessment Cards	\$49,997	Daniel McGrath Oregon State University
SW98-031	Advancing Sustainable Potato Production in the Northwest	\$42,000	Karen Murphy The Northwest Coalition for Alternatives to Pesticides
SW97-074	Advancing Sustainable Potato Production in the Northwest	\$35,000	Karen Murphy The Northwest Coalition for Alternatives to Pesticides
SW96-013	Implementation and Assessment of Economic and Environmental Impact of a Weather Monitoring/Pest and Disease Risk Assessment Network in Commercial Pear Production in Oregon	\$58,290	Franz Niederholzer Oregon State University Extension Service
SW95-025	Influences of Alternative Vegetable Systems on Arthropods/Soil Biological Dynamics and Soil Quality Trajectory	\$180,000	Richard Dick Oregon State University

SW94-029	Development and Demonstration of Integrated Vegetable Production Systems for the Maritime Pacific Northwest	\$80,000	John Luna Oregon State University
LWD93-007	Development of Sustainable Crop and Livestock Production Systems for Land in the Conservation Reserve Program	\$14,000	Rex E. Kirksey
LW92-031	Grazing Strategies for Sustainable Ranching Systems in Western Semi-Arid Zones	\$237,738	Ludwig M. Eisgruber Oregon State University
LWE92-001	On-Farm Demonstration of Integrated Vegetable Production Systems for the Maritime Pacific Northwest	\$39,000	John Luna Oregon State University
LW88-001	Evaluation and Design of Low-Input Sustainable Vegetable/Small Grain and Small Fruit Systems of Western Oregon and Washington	\$404,105	Richard Dick Oregon State University

RESEARCH TO GRASS ROOTS GRANTS

Project #	Project Title	SARE Support	Project Leaders
WRGR22-002	Establishing a beginning dry farming curriculum and accelerator program	\$99,901	Dr. Lucas Nebert Oregon State University Amy Garrett Oregon State University Small Farms Extension Matthew Davis Oregon State University
RGR20-011	Spring Season Extension Efficiency in Cool, Short Season Climates	\$68,486	Nicole Sanchez Oregon State University
WRGR19-03	Regenerative Agriculture: connecting soil health, native bee habitat, and climate resilience through on-farm management strategies	\$30,886	Elise Higley Our Family Farms

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE Support	Project Leaders
WPDP24-007	Training Oregon Extension and Other Professionals to Assist Emerging Commercial Producers of Bigleaf Maple Syrup and other Sap-based Foods	\$99,977	Dr. Eric Jones Oregon State University

WPDP24-009	Expanding Agriculture Professionals Knowledge and Professional Development to support Growing Latine Farmer Population in Washington County, Oregon.	\$100,000	BAILEY MATLOCK Adelante Mujeres Sage Fairman Adelante Mujeres Lourdes Herencia Adelante Mujeres Mara Rico Adelante Mujeres
WPDP24-012	Cultivating Farm Law Leaders in the Western Region	\$99,960	Eva Moss Farm Commons
WPDP24-022	Climate Stress & Grief: Building Awareness and Resilience Strategies for Ag Professionals & Producers in the West	\$99,970	Maud Powell OSU Extension Mary Hableib Oregon State University Courtney Olcott Oregon State University Extension
WPDP24-025	Improving Water Storage for Water Resilience: Developing a Train-the-Trainer Program on Best Practices for Agricultural Ponds and Reservoirs	\$99,828	Dr.Abigail Tomasek Oregon State University Samuel Chan Oregon State University (1862 Land Grant) Derek Godwin Oregon State University Dr.María Zamora Re Oregon State University
WPDP24-028	Training the Next Generation of IPM Practitioners on the Management of Orthoptera Pests: An Insect Order With Increasing Impacts to Western Farmers	\$99,990	Dr.Silvia Rondon Oregon State University Christopher Marshall Oregon State Arthropod Collection, Oregon State University Dr.Ebba Peterson Oregon State University Oregon IPM Center
WPDP23-005	Agroforestry Training and Resources for Natural Resource Professionals in Washington and Oregon	\$99,777	Abel Kloster Center for Rural Livelihoods / Resilience Permaculture Design LLC Carrie Brausieck Snohomish Conservation District Patrick Shults Washington State University, ANR Extension Unit
WPDP22-020	Irrigation Technology and Management (ITM) Professional Development Project	\$99,982	Todd Peplin Deschutes Soil and Water Conservation District
WPDP22-001	Growing Agricultural Service Providers' Program Outcomes with Producer Co-Educators	\$84,995	Mary Halbleib Oregon State University Colette DePhelps University of Idaho Extension

PDP20-019	Planning and Programming the 2021 National Farm Viability Conference in Oregon	\$73,119	Chris Schreiner Oregon Tilth
ENE19-158	The Soil Life Short Course: Empowering Ag Professionals to Recognize, Quantify, and Conserve Beneficial Soil Animals	\$114,618	Eric Lee-Mader Eric Lee-Mader Stephanie Frischie The Xerces Society
EW18-015	OSU Land Steward Program Professional Development Project	\$73,199	Rachel Werling Oregon State University
EW17-019	Western Region Pesticide Risk Reduction through Professional Development for Western State IPM Programs	\$69,299	Paul Jepson Oregon State University
EW16-010	Redefining Learner-centered Education to Build High Impact IPM Partnerships	\$67,802	Mary Halbleib Oregon State University
EW16-027	Sustainable Grazing Management in Riparian and Wetland Pasture	\$15,237	Caley Sowers Coos Soil and Water Conservation District
ES16-128	The Conservation Biological Control Short Course	\$74,651	Eric Mader The Xerces Society
ENE15-137	The Conservation Biological Control Short Course	\$97,097	Eric Mader The Xerces Society
EW15-014	Collaborative Approaches to Increase the Integration of Functional Agricultural Biodiversity in Western Farming Systems	\$67,699	Gwendolyn Ellen Agricultural Biodiversity Consulting
EW15-020	Growing the Field for Organic Conservation: Training on NRCS CAP 138 and NOP Conservation Standards	\$73,447	Sarah Brown Oregon Tilth
EW14-031	Training IPM Professionals in Rural Areas: A Model to Achieve Sustainable Knowledge	\$74,755	Dr.Silvia Rondon Oregon State University
EW14-035	The Conservation Biological Control Short Course	\$72,050	Eric Mader The Xerces Society
EW12-031	Organic Conservation Training for Western Region Conservation Professionals	\$98,288	Sarah Brown Oregon Tilth

EW11-015	Creating Sustainable Agriculture Farmer-to-Farmer Networks through Professional Trainings and an Agricultural Educator Toolkit	\$99,590	Melissa Matthewson Oregon State University Extension
EW11-021	The Soil Quality Network	\$56,992	Teresa Matteson Benton Soil and Water Conservation District
EW10-018	Western Pollinator Conservation Planning Short Course	\$90,906	Eric Mader The Xerces Society
EW09-001	Empowering Ag Professionals through a Beneficial and Pest Insect Train-the-Trainer Short Course Program for Oregon, Washington, & Idaho	\$95,635	Mary Corp Oregon State University Dr.Silvia Rondon Oregon State University
EW08-001	Tri-State Organic Certification and Conservation Planning Cross-Training	\$86,137	Chris Schreiner Oregon Tilth
EW07-018	Conserving the Three P's: Habitat Conservation Practices for Beneficial Predators, Parasites, and Pollinators	\$51,165	Mace Vaughan The Xerces Society
EW06-010	Organic Seed Production: Materials, Training, and a Seed Database.	\$98,755	Brian Baker Organic Materials Review Institute
EW06-012	Hands-On Workshops: Alternative Marketing Approaches and Distribution Channels	\$60,000	Larry Lev Oregon State University
EW05-006	Rhizosphere Ecology in Changing Cropping Systems	\$7,348	Sandy Macnab Oregon State University Extension, Sherman County
EW00-011	Western Integrated Nutrient Management Education Program	\$84,750	Mary Staben Oregon State University
EW97-004	Developing an Educational Program for Teaching Science-based Concepts of Grass Regrowth for Improved Grazing Management	\$65,000	David B. Hannaway Oregon State University
EW94-008	Pacific Northwest Sustainable Agriculture Systems Training Program	\$78,000	John Luna Oregon State University

FARMER/RANCHER GRANTS

Project #	Project Title	SARE Support	Project Leaders
-----------	---------------	--------------	-----------------

FW24-001	Investigating the Efficacy of Reusable Grow Bags in Specialty Mushroom Cultivation to Reduce Single-Use Plastic	\$24,899	Trevor Huebert Bridgetown Mushrooms
FW24-009	Cottage Grove Flower Festival Builds Personal Connections Between Flower Farmers and Their Community of New Customers.	\$25,000	Cindy Ingram The Happy Hill Homestead
FW24-010	Establishing a Silvopasture Site for Long-term Research, Education, and Livelihood	\$25,000	Jason Bradford Sol Cycle Farm
FW24-016	Occultation Impacts on Soil Health and Plant Termination in Oregon	\$22,785	Rhianna Simes Verdant Phoenix Farm
FW23-412	Expanding Commercial Drought-Tolerant Seed Production	\$25,000	Cacia Huff Feral Farm
FW23-422	Uncovering the Efficacy of Hemp Byproduct as a Mushroom Growing Medium: Nurturing Symbiosis Between Local Farmers	\$25,000	Rebecca Winters Mountain Forage
FW23-425	Evaluate the impact of no-till practices on soil health in high tunnels and low tunnels	\$24,296	Beth Portesi Lazy Acres Farm
FW23-431	Improving the Marketing Edge for Small Producers of Olives and Extra Virgin Olive Oil in Oregon	\$25,000	Bogdan "Beau" Caceu La Creole Orchards
FW22-391	Effects of using ducks as biological control to manage weeds and pests within an orchard crop system	\$20,442	Peng Sun Golden Sun Farm & Nursery LLC
FW22-397	Determining if Comfrey Fermented Plant Juice is a viable alternative to traditional purchased fertilizers	\$24,963	Sarahlee Lawrence Rainshadow Organics
FW22-405	No/low-till practices as a water conservation tool on small-scale vegetable farms East of the Cascades	\$29,896	Katie Swanson Sweet Union Farm, LLC
FW21-380	Mushroom Farming Research and Education to Bring Greater Equity and Diversity to the Food System	\$25,000	Bashira Muhammad Zoom Out Mycology LLC

FW20-358	Improving Irrigated Pasture Productivity and Soil Biodiversity in Oregon's High Desert	\$20,000	John Shine Shine Brothers Ranch
FW20-369	Effects of multi-species rotational grazing on soil microbial communities	\$20,000	Thomas Gillett Black Tansy Farm, LLC
FW19-351	Effects of Subsurface Micro-irrigation on Water Use Efficiency and Hazelnut Tree Growth	\$19,767	Darrel Smith ZD Farms of Oregon
FW19-356	Farmer/Rancher Sustainable Soil with Biochar	\$19,952	Gary Betts Yellow Dog Farm
FW18-048	Potential for Shake and Catch Harvesting of Hazelnuts	\$19,532	Taylor Larson My Brothers' Farm
FW18-013	Economic viability of fodder beets as winter forage for cattle in Eastern Oregon	\$19,419	Cody Wood Willamette Valley Lamb
FW16-031	Understanding On-Farm Costs of Production	\$9,400	Sarah Brown Diggin' Roots Farm
FW15-018	Growing a Regional Seed Producers network in the Rogue Valley, Oregon	\$23,203	Eric George Southern Oregon Seed Growers Association
FW15-054	Evaluating Market Opportunities of Conventional vs. GMO-free Broilers	\$4,003	Jared Pruch Cascade Pacific RC&D
FW14-013	Innovative CSA Marketing Tools	\$24,299	Thomas Powell Wolf Gulch Farm
FW14-019	Improving Orchard Management through Multi-Species Cover Crop Mo	\$18,340	Mike Omeg Orchard View Inc
FW10-029	Development of a Northwest Farm Stay Website	\$28,934	Scottie Jones Leaping Lamb Farm
FW10-032	Organic Wheat Intercropping Trials and Outreach	\$15,000	Sarahlee Lawrence Rainshadow Organics
FW09-038	Rodent Control in Orchards Using Raptors	\$11,066	Mike Omeg Orchard View Inc

FW09-040	Building a Local Food Cooperative Through an Interactive Website	\$15,000	Sarahlee Lawrence Rainshadow Organics
FW09-042	Managing Solitary Cavity Nesting Bees for Cane Fruit in Oregon	\$14,985	Don Strurm Sturm's Berry Farm Inc. Dr.Karen Strickler Pollinator Paradise
FW09-328	Increasing Grower Adoption of Adaptive Cover Cropping Systems: Effects on Vegetable Production and Nitrogen Cycling	\$50,000	Nick Andrews Oregon State University
FW08-033	Butcher Waste as Biofuel	\$14,885	Kelly and Ross McGarva
FW07-006	Butcher Waste Composting for Field Fertility	\$13,750	Kelly and Ross McGarva
FW07-015	Using Season Extending Techniques to Diversify Traditional Agricultural Economy and Improve Quality and Quantity of Fresh Food Supply in Remote NE Oregon Valley	\$12,475	June Colony Lostine Longwool
FW07-308	Augmentation of Mite Predators on Apples and Grapes	\$25,000	Lyla Lampson Lampson Research and Consulting
FW06-003	Costs, Comparisons, and Effectiveness Using Chlorophyll Sensing Sprayers in a Chemical Fallow Operation	\$6,950	William Jepsen
FW06-032	Determine Whether Small Farm Poultry Production Can Be Boosted when Combined with Red Worm (<i>Eisenia foetida</i>) Vermiculture	\$10,000	Chrissie Zaerpoor Kookoolan Farm Koorosh Zaerpoor Kookoolan Farm
FW06-301	Estimating Nitrogen Contribution from Cover Crops in Organic Vegetable and Cane Berry Farms	\$19,325	Nick Andrews Oregon State University
FW05-004	Sheep vs. Weeds: Biological Control Agents to Combat Noxious Weeds	\$4,570	Cameron Gillespie Gillespie Grazing Co. Sabrina Gillespie Gillespie Grazing Co.
FW05-006	Coastal Oregon Nitrogen Recovery	\$20,000	Don Smith Producer

FW05-018	Farm Internship Curriculum and Handbook	\$20,000	Thomas Powell Wolf Gulch Farm
FW05-302	Environmentally Sound Irrigation and Fertility Systems for Sweet Cherry Crops in the Pacific Northwest	\$19,585	Clark Seavert Mid-Columbia Agricultural Research Center
FW04-004	Sustainable Ditch Stabilization	\$4,246	James VanLeeuwen
FW04-017	Split-Season Rotation Grazing Study	\$6,647	Robert Lozano
FW04-019	Silvo-Pasture with Hybrid Poplar and Sheep	\$7,053	Richard Shuren Greenwood Resources
FW04-021	Recycle Used Gestation Crates into Group-Housed Sow Feeding Stalls	\$6,300	Deanna Quan
FW04-026	Effectiveness of Three Methods of Removing Stumps to Control Annosus Root Rot in Christmas Tree Plantations	\$5,130	Jim Puffer Yule Tree Farms
FW04-027	Pumpkin Seed as a Natural Alternative to Chemical Dewormers in Sheep	\$14,990	Mac Stewart Magruder Farms Margaret Magruder Magruder Farms Alice Royle
FW04-108	Hillsdale Winter Harvest Farmers Market	\$14,950	Kimberly Moore Deep Roots Farm Aaron Bolster Deep Roots Farm
FW04-118	Virtual Focus Group to Measure Most Efficient Use of Marketing Resources	\$6,863	Mehrten Homer Painted Hills Natural Beef
FW04-317	Sustainable Ranching Program	\$13,352	Pat Larson Oregon Cattlemen's Association
FW03-023	Can a Summer Cover Crop of Sudan-sorghum Reduce the Detrimental Effects of Tillage in Fall-planted Garlic?	\$9,629	Laura Masterson 47th Avenue Farm
FW02-204	Poplar Cotton Fiber Production: A market Opportunity in Oregon	\$7,480	Ray Ethell

FW02-206	Imperial Stock Ranch Heritage Lamb/Fiber Marketing	\$7,000	Jeanne Carver
FW01-040	Alternative Uses for Raw Wool: Feasibility Study/Marketing Strategy	\$13,500	Margaret Magruder Magruder Farms
FW01-049	Measuring the Interest for Marketing Pastured Poultry at Farmer's Markets	\$6,500	Aaron Silverman Greener Pastures Producers Group
FW00-034	Russian Honey Bee Queens Resistant to Varroa in Oregon	\$9,125	Chuck Hunt
FW00-051	Low Stress Stockmanship Clinic for Jackson County, Oregon	\$5,075	John Dimick Jackson County Stockman's Assoc.
FW00-235	Veneta Cooperative Farm Stand	\$5,063	Gwendolyn Ellen Agricultural Biodiversity Consulting
FW00-256	Agritourism-Sustainable Agriculture with Cash and Information Flow	\$8,000	Catherine Grant
FW99-005	Integrated Strip-Till Systems for Vegetable Production in Western Oregon	\$7,786	Rob Heater
FW99-071	Improving the Sustainability of Pasture and Livestock Management through the Development of a Grazing Network in Lane County, Oregon	\$3,101	Paul Atkinson
FW98-074	Clover Creek Ranch Early Weaning Comparison	\$2,658	Ron Jones
FW97-002	Reducing Foxtail in Permanent Pastures	\$3,500	Kathleen Panner
FW97-007	Using Truffles to Enhance Douglas Fir Production On A Small Family Farm	\$2,800	Tim Grant
FW97-020	The Use of Goats to Control Juniper, Sage & Rabbit Brush	\$3,500	Ann R. Snyder
FW97-035	Constructed Wetland for Waste Water Treatment	\$3,200	Gary Shull

FW97-041	Biological Control of Pear Pests	\$5,000	George Ing
FW96-003	Low Tillage Weed Control	\$1,895	Jim Fullmer
FW96-013	Use of Aerated Compost Teas for Control of Foliar Diseases of Spinach, Lettuce and Broccoli and to Promote Plant Vigor and Quality	\$2,620	William Booth Horton Road Organics
FW96-019	Use of Aerated Compost Teas as a Preventative Foliar Fungicide on Grape Vines Vitus vinifera	\$2,930	Dave Michul King Estate Vineyards
FW96-026	The Effect of Aerated Compost Teas on Disease Control in Blueberries and Tomatoes	\$2,610	Jack Gray Winter Green Farm
FW96-037	Grazing Sheep in New Forest Plantings	\$1,575	Tom Lehman
FW96-059	School Cafeteria Compost System for Soil Amendment Production	\$3,000	Devon Strong
FW96-068	Organic Mulch for Weed Control in Rhubarb	\$2,500	Jeff Boden
FW95-027	Parasite and Nutrient Management of Composted Manure	\$1,225	Glenna Wilder Bro-A-Bryn Farms
FW95-050	Low Tillage Weed Control System	\$1,600	Jim Fullmer
FW95-072	Demonstration and Implementation of Integrated Fruit Production on Anjou Pears	\$5,000	Thom Nelson Hood River Grower - Shipper Association
FW95-075	Evaluating Methods to Enhance Microbial Degradation of Residual Soil Contaminants	\$5,000	J. J. Haapala

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE Support	Project Leaders
-----------	---------------	--------------	-----------------

GW24-003	Assessing Cover Crop Influence on Water Dynamics and Plant Health in Willamette Valley Hazelnut Orchards	\$29,919	Dr.María Zamora Re Oregon State University Dr.Abigail Tomasek Oregon State University Dragomira Zheleva Oregon State University
GW23-248	Exploring endophyte-mediated resistance response against winter cutworm, <i>Noctua pronuba</i> in cool-season turfgrass systems	\$29,902	Dr.Navneet Kaur Oregon State University Hannah Rivedal USDA-ARS National Forage Seed and Cereal Research Unit Julaluck Intasin Oregon State University
GW23-251	Native Cover Cropping in Hazelnut Orchards	\$29,613	Lauren Hallett University of Oregon Marissa Lane-Massee University of Oregon
GW23-252	Enhancing Biological Control of Corn Earworm in Hemp	\$29,613	Govinda Shrestha Oregon State University Adriana Perz Oregon State University
GW22-236	Control of Powdery Scab of Potato With Disease Suppressive Soils	\$29,823	Ken Frost Oregon State University, Hermiston Agricultural Research and Ext Daniella Echeverria Oregon State University
GW22-239	Testing thiamin as an immunity inducer against bacterial and fungal pathogens in potato	\$29,836	Dr.Aymeric Goyer Oregon State University Trenton Berrian Oregon State University
GW21-219	Assessment of UV-C Radiation as an Integrative Pest Management Tool for the Management of Grape Powdery Mildew and Botrytis Bunch Rot	\$30,000	Walt Mahaffee USDA ARS Alexander Wong Oregon State University
GW21-223	Restore into the future: post-fire rangeland restoration in the Great Basin	\$29,994	Lauren Hallett University of Oregon Lina Batas University of Oregon Dr.Matt Streisfeld University of Oregon Lina Batas University of Oregon
GW21-225	Cover Crops for Enhancing Cherry Orchard Habitat for Beneficial Invertebrates	\$30,000	Dr.Sandy DeBano Oregon State University Dr.Christopher Adams Oregon State University Mid-Columbia Agricultural Research and E Scott Mitchell Oregon State University

GW21-229	Breeding Snap Beans For Organic Agriculture: Quantification And Application Of Key Traits	\$23,914	James Myers Oregon State University Hayley Park Oregon State University Hayley Park Oregon State University
GW19-188	Enhancing Pollinator Habitat in Pacific Northwest Croplands Using DNA Metabarcoding Techniques	\$25,000	Dr.Sandy DeBano Oregon State University Katherine Arstingstall Oregon State University
GW19-189	Potato Virus Y: Testing New Potential Resistance Genes to an Enduring Threat to Potato Production	\$25,000	Dr.Aymeric Goyer Oregon State University Max Combest Oregon State University
GW19-195	Pacific Flatheaded Borer: An old pest is new again in Oregon's rapidly expanding hazelnut industry	\$24,825	Dr.Nik Wiman Oregon State University Anthony Mugica Oregon State University
GW18-027	Determining the Impacts of Dormant Pruning Methods and Nitrogen Fertilization on Pinot Noir Bud Fruitfulness and Yield	\$22,786	Dr.Patricia Skinkis Oregon State University Miranda Ulmer Oregon State University (former, at the time of the project), currently Colorado State University
GW18-157	Diagnosis and control of winter squash storage rots in western Oregon	\$25,000	Dr.Kenneth Johnson Oregon State University Hannah Rivedal Oregon State University
GW16-016	Effects of Grassland Restoration on Native Bee and Spider Communities in a Pacific Northwestern Agroecosystem	\$24,999	Dr.Sandy DeBano Oregon State University Lauren Smith Oregon State University
GW15-018	Managing A Challenging Subterranean Clover Pest: Sustainable Control Using Insect Pathogens	\$12,859	Dr.Sujaya Rao Oregon State University Anis Lestari Oregon State University
GW15-034	Increasing the Marketability of Pacific Northwest Potatoes	\$24,401	Dr.Aymeric Goyer Oregon State University Bruce Robinson Oregon State University
GW13-014	Reducing Drosophila suzukii Management Challenges: An Alternative to Insecticide Cover Sprays	\$24,750	Dr.Wei Yang North Willamette Res & Ext Center Jimmy Klick Oregon State University
GW12-022	Late season and overwintering management of the large raspberry aphid	\$19,193	Danielle Lightle Oregon State University Jana Lee USDA ARS

GW09-008	Enhancing the integration of mite biological control in western United States vineyard management programs	\$25,000	Angela Gadino Oregon State University
GW08-014	Pollination by Bumble Bees for Enhanced Clover Seed Production	\$19,977	Dr.Sujaya Rao Oregon State University Kimberly Skyrn Oregon State University
GW06-010	Assessment of Riparian Management Practices in Northeastern Oregon	\$9,531	David Wooster Oregon State University Dr.Sujaya Rao Oregon State University Melissa Scherr Oregon State University

ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE Support	Project Leaders
OW24-003	Identifying Climate-resilient Warm Season Food and Forage Species in Western Oregon	\$74,792	Shayan Ghajar Oregon State University Dr.Lucas Nebert Oregon State University
OW24-006	Building Sustainable Farm Resiliency through Farmer-Centered Business Solutions	\$74,681	Holly Hutchason Pacific NW CSA Coalition Mary Columbo Wild Roots Farm Jay Hughes Pacific NW CSA Coalition Lily Matlock Lil Starts Melissa Streng Sun Love Farm Michelle Week Good Rain Farm
OW23-377	Producing blueberry trees for sustainable blueberry production	\$65,857	Dr.Wei Yang North Willamette Res & Ext Center Dr.Yongjian Chang North American Plants LLC Sam Doane J. Frank Schmidt & Son Co.
OW23-381	Analyzing Crop Profitability And Financial Metrics On Flower Farms: Phase 2	\$72,000	Helen Larkin Lennie Larkin Consulting

OW23-383	Cover Crops as a Tool for Vineyard Floor Management to Improve Soil Quality of Rocky Vineyard Soils	\$73,600	Cody Copp Oregon State University Chris Banek Banek Winegrower Management Rich Funk Saviah Cellars Jack Klipfel Mt. Fuji & The Rocks LLC Brooke Robertson Delmas SJR Vineyard
OW22-369	Dry Farm Melon Production in Oregon	\$74,583	Dr.ALEXANDRA STONE Oregon State University Andy Gallagher Red Hill Soil Amy Garrett Oregon State University Small Farms Extension Lane Selman Oregon State University
OW22-370	Clover seed weevil management in white clover seed production systems	\$74,996	Dr.Navneet Kaur Oregon State University Nicole Anderson Oregon State University Seth Dorman USDA-ARS Christy Tanner Oregon State univeristy Dr.Dani Lightle Oregon State University Dani Lightle Oregon State Univeristy
OW22-371	Bee Friendly Farming for Oregon Wine Grapes	\$74,902	Dr.Andony Melathopoulos Oregon State University
OW21-364	Optimizing vole trapping strategies in annual and perennial cropping systems	\$74,364	Nick Andrews Oregon State University Dr.Dana Sanchez Oregon State University
OW21-365	Overseeding novel forages in Oregon as a model for enhancing perennial grass pastures in the Pacific Northwest	\$75,000	Dr.Serkan Ates Oregon State University Fara Brummer Oregon State University Dr.David Hannaway Oregon State University Ian McGregor, M.S. Oregon State University, Klamath Basin Research and Extension Ce Guojie Wang Oregon State University - Eastern Oregon Agricultural Research C

OW21-366	Establishing a participatory research network for drought-tolerant corn production in the Pacific Northwest	\$74,990	Dr.Lucas Nebert Oregon State University Amy Garrett Oregon State University Small Farms Extension James Myers Oregon State University Dr.Lucas Nebert Oregon State University
OW21-367	Analyzing Production Costs of Organic Hazelnuts in Oregon	\$73,124	Ben Bowell Oregon Tilth
OW20-356	Investigating techniques for successful overwintering of honey bee queens in bulk	\$49,796	Dr.Ramesh Sagili Oregon State University Ellen Topitzhofer Oregon State University
OW19-347	Sustaining winter wheat production using biochar amendments in northeast Oregon	\$49,973	Stephen Machado Oregon State University Dr.Rakesh Awale Oregon State University,
OW19-348	Enhancing Vegetable Farm Resilience through Dryland Production	\$49,997	Dr.ALEXANDRA STONE Oregon State University
OW18-019	Expanding the Adoption of Under-Trellis Cultivators in Vineyards to Reduce Herbicide Input	\$49,991	Marcelo Moretti Oregon State University
OW18-020	Investigating the feasibility of berry production in Central Oregon under protected and unprotected culture	\$49,998	Clare Sullivan Oregon State University
OW17-008	Training Seed Producers and Increasing Local Markets for Seed Production	\$49,750	Maud Powell OSU Extension
OW17-024	Resistant, resilient and long storing garlic varieties for organic farming systems and markets	\$49,971	Dr.ALEXANDRA STONE Oregon State University
OW16-338	Improving Water Saving Techniques and Fruit Quality in Oregon Vineyards	\$20,548	Karen Peterson A to Z Wineworks
OW16-008	Winter squash: extending the season and expanding the uses	\$49,958	Dr.ALEXANDRA STONE Oregon State University
OW16-028	Evaluating cover crops for mature hazelnut orchards in the Willamette Valley, Oregon	\$49,997	Dr.Nik Wiman Oregon State University

OW16-038	Restoring Rangeland Quality with Soil Health Enhancement	\$44,450	Debbie Wood Crooked River Weed Management Area
OW15-005	Integrated Clubroot Control Strategies for PNW Brassica Producers	\$49,554	Dr.Dan Sullivan Oregon State University
OW15-007	Interseeding to improve winter cover crop establishment and efficiency in processed vegetable production in the Willamette Valley	\$49,464	Dr.Ed Peachey Oregon State University
OW14-020	Natural Fertilizer Market Assessment Project	\$21,552	Nicole Cousino Nicole Cousino
OW13-055	Assessing the Impacts of Mob Grazing in Southern Oregon	\$47,142	Angela Boudro Jackson Soil & Water Conservation District
OW12-034	Management of Fusarium Wilt of Cucurbits with Vetch Cover Cropping and Grafted Transplants	\$49,158	Dr.ALEXANDRA STONE Oregon State University
OW10-327	Establishing Economic Threshold and Epidemiology for Nosema Ceranae, A Relatively New Species of Microsporidian Parasite in the Honey Bee for PNW	\$38,536	Dr.Ramesh Sagili Oregon State University
OW10-329	Protecting Water Quality and Promoting Economic Efficiency at Agricultural Composting Facilities	\$49,115	Nick Andrews Oregon State University
FW06-324	Banking on Beetles in Oregon	\$19,068	Gwendolyn Ellen Agricultural Biodiversity Consulting

**Total funding from the USDA SARE program to
Oregon
\$14,127,426**



For further information on projects, contact Western SARE at (406) 994-4785 or wsare@montana.edu.

Sustainable Agriculture Research and Education (SARE) is funded by USDA's National Institute of Food and Agriculture (NIFA).