

## 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 \$309 million to more than 7,407 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](http://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](http://sare.org/projects), and search for project number [GW15-018](#).

## SARE in Oregon

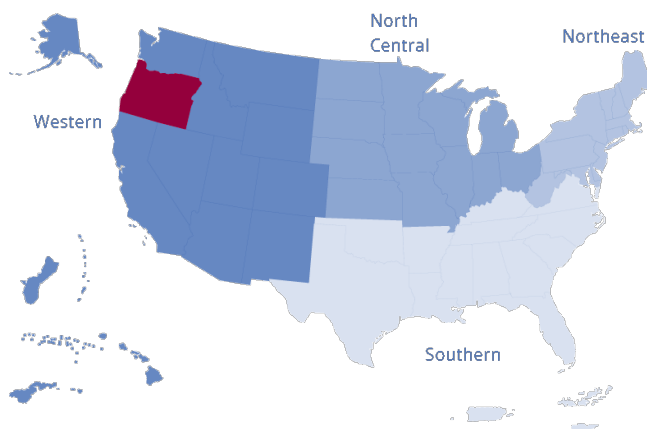
[western.sare.org/sare-in-your-state/oregon](http://western.sare.org/sare-in-your-state/oregon)

**\$10,738,023**  
in total funding

**172 grant projects**

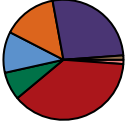
(since 1988)

For a complete list of grant projects state by state, go to [www.sare.org/state-summaries](http://www.sare.org/state-summaries)



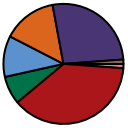
# SARE Grants in Oregon

Total awards: 172 grants



2 Enhanced State Grants  
65 Farmer/Rancher  
13 Graduate Student  
19 On Farm  
Research/Partnership  
25 Professional  
Development Program  
46 Research and Education  
2 Research to Grass Roots

Total funding: \$10,738,023



\$77,507  
Enhanced State Grants  
\$711,843  
Farmer/Rancher  
\$283,321  
Graduate Student  
\$838,018  
On Farm  
Research/Partnership  
\$1,845,539  
Professional Development  
Program  
\$6,882,423  
Research and Education  
\$99,372  
Research to Grass Roots

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/oregon](http://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-pages/oregon](http://western.sare.org/state-pages/oregon) to learn more.

Maud Powell  
Oregon State University Extension  
(541) 772-5110  
[maud.powell@oregonstate.edu](mailto:maud.powell@oregonstate.edu)

Clare Sullivan  
OSU Extension Deschutes County  
(541) 602-2009  
[clare.sullivan@oregonstate.edu](mailto:clare.sullivan@oregonstate.edu)



For detailed information on SARE projects, go to  
[www.SARE.org](http://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 OREGON

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

Oregon has been awarded \$10,660,516 grants to support 167 projects, including but not limited to, 43 research and/or education projects, 25 professional development projects and 65 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
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 (Olea europaea) in Oregon. Part I	\$193,575	Dr.Javier Fernandez-Salvador 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
SW09-703	Expanding Small-scale Grain Production in Southwestern Oregon	\$24,402	Maud Powell OSU Extension Shelley Elkovich OSU Extension Small Farms
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
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 ( <i>Scutigera immaculata</i> 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
SW00-024	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
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
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
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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
PDP20-019	Planning and Programming the 2021 National Farm Viability Conference in Oregon	\$73,119	Elizabeth Sachs Oregon Tilth Sarah Brown Oregon Tilth Dr.Lauren Gwin Oregon State University
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
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
ENE15-137	The Conservation Biological Control Short Course	\$97,097	Eric Mader The Xerces Society
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
EW11-021	The Soil Quality Network	\$56,992	Teresa Matteson Benton Soil and Water Conservation District

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
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
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
FW19-356	Farmer/Rancher Sustainable Soil with Biochar	\$19,952	Gary Betts Yellow Dog Farm
FW19-351	Effects of Subsurface Micro-irrigation on Water Use Efficiency and Hazelnut Tree Growth	\$19,767	Darrel Smith ZD Farms of Oregon
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 Omeg Orchards
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
FW09-042	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
FW09-038	Rodent Control in Orchards Using Raptors	\$11,066	Mike Omeg Omeg Orchards
FW09-040	Building a Local Food Cooperative Through an Interactive Website	\$15,000	sarahlee Lawrence Rainshadow Organics
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
FW07-308	Augmentation of Mite Predators on Apples and Grapes	\$25,000	Lyla Lampson Lampson Research and Consulting
FW06-301	Estimating Nitrogen Contribution from Cover Crops in Organic Vegetable and Cane Berry Farms	\$19,325	Nick Andrews Oregon State University
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
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
FW04-118	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
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
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
FW96-037	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
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 <i>Vitis vinifera</i>	\$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
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
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
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
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 Oregon State University 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
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
OW10-329	Protecting Water Quality and Promoting Economic Efficiency at Agricultural Composting Facilities	\$49,115	Nick Andrews 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
FW06-324	Banking on Beetles in Oregon	\$19,068	Gwendolyn Ellen Agricultural Biodiversity Consulting

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**Total funding from the USDA SARE program to  
Oregon  
\$10,660,516**

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For further information on projects, contact Western SARE at (435) 797-2257 or [wsare@usu.edu](mailto:wsare@usu.edu).

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