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 $354 million to more than 8,043 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... California


Managing nitrogen (N) effectively helps farmers raise a high-quality crop, avoid wasting dollars and protect water quality. Yet in the highly productive Salinas Valley of Monterey County, many farmers who use organic practices lack complete information on effective N management. This is particularly true of beginning farmers and those who have a language barrier or otherwise have limited access to support services. Organic agriculture is booming in Monterey County: organic sales volume was $151 million in 2012. Ensuring that all organic growers have the best opportunity to succeed in a lucrative market was the motivation behind the Agriculture and Land-Based Training Association’s (ALBA) SARE grant.

ALBA collaborated with experienced farmers and Extension specialists to hold workshops on organic N management and on-farm research principles. It also provided in-depth, bilingual training and support to nine beginning farmers participating in its incubator program. ALBA’s grant allowed 500 growers and educators to benefit from workshops and publications focused on N management, and 91 percent of surveyed farmers reported adopting at least one new practice. By improving their knowledge on the subject and integrating new practices, the growers have positioned themselves for success.

For more information on this project, see sare.org/projects, and search for project number OW13-062.

SARE in California

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

$14,838,190 in total funding

232 grant projects (since 1988)

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

www.sare.org
SARE Grants in California

Total awards: 232 grants

- 66 Research and Education
- 42 Professional Development Program
- 73 Farmer/Rancher
- 34 Graduate Student
- 14 On Farm Research/Partnership
- 3 Research to Grass Roots

Total funding: $14,838,190

- $9,303,778 Research and Education
- $2,880,403 Professional Development Program
- $1,063,079 Farmer/Rancher
- $712,565 Graduate Student
- $708,951 On Farm Research/Partnership
- $169,413 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/california

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/california to learn more.

Sonja Brodt
University of California Sustainable Agriculture Research & Education Program
(530) 754-8547
sbbrodt@ucdavis.edu

Jeffery Stackhouse
UCCE Livestock Advisor
(707) 445-7351
jwstackhouse@ucanr.edu

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.
AGRICULTURE PROJECTS FUNDED IN CALIFORNIA
by USDA's Sustainable Agriculture Research and Education (SARE) Program

California has been awarded $14,838,190 grants to support 224 projects, including but not limited to, 58 research and/or education projects, 42 professional development projects and 73 producer-led projects. California 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>
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</thead>
<tbody>
<tr>
<td>SW22-931</td>
<td>Quantifying the Indirect Costs of Gray Wolf - Cattle Interactions</td>
<td>$296,080</td>
<td>Tina Saitone&lt;br&gt;University of California, Davis&lt;br&gt;Dr.Kenneth Tate&lt;br&gt;University of California Davis</td>
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<tr>
<td>SW22-932</td>
<td>Effects of colostrum storage and housing style on health and welfare of pre-weaning calves in conventional and organic dairy farms</td>
<td>$339,038</td>
<td>Dr.Jose Peralta, DVM PhD&lt;br&gt;College of Veterinary Medicine, Western University of Health Sciences&lt;br&gt;Betsy Karle&lt;br&gt;University of California, Agriculture and Natural Resources&lt;br&gt;Dr.Manel Lopez-Bejar, DVM PhD&lt;br&gt;College of Veterinary Medicine, Western University of Health Sci&lt;br&gt;Dr.Brian Oakley, PhD&lt;br&gt;College of Veterinary Medicine, Western University of Health Sci&lt;br&gt;Dr.James Reynolds, DVM&lt;br&gt;College of Veterinary Medicine, Western University of Health Sci</td>
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<tr>
<td>SW22-933</td>
<td>Integrated field and satellite based decision support system for climate-resilient and sustainable ranches and rangelands across California</td>
<td>$348,561</td>
<td>Yufang Jin&lt;br&gt;University of California, Davis&lt;br&gt;Royce Larsen&lt;br&gt;University of California, ANR&lt;br&gt;Leslie Roche&lt;br&gt;UC Davis&lt;br&gt;Matt Shapero&lt;br&gt;University of California Davis, ANR&lt;br&gt;Steven Steven Ostoja&lt;br&gt;USDA, Agricultural Research Service</td>
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<tr>
<td>SW20-912</td>
<td>Use of Almond Hull and Shell as Organic Matter Amendments in Advanced Orchard Management</td>
<td>$349,807</td>
<td>Dr.Sat Darshan Khalsa&lt;br&gt;University of California Davis&lt;br&gt;Dr.Patrick Brown&lt;br&gt;University of California Davis&lt;br&gt;Dr.Amelie Gaudin&lt;br&gt;University of California, Davis</td>
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<td>SW20-913</td>
<td>Effective Management of Thousand Cankers Disease of Walnut through Disruption of Insect Vector Behavior</td>
<td>$349,770</td>
<td>Dr.Richard Bostock&lt;br&gt;University of California&lt;br&gt;Dr.Daniel Kluepfel&lt;br&gt;USDA - ARS, Crops Pathology and Genetics Research Unit&lt;br&gt;Dr.Steven Seybold&lt;br&gt;USDA Forest Service</td>
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<td>SW20-919</td>
<td>Biointensive no-till farming in California: farmer-driven research and education on soil health, water efficiency and economic resiliency</td>
<td>$251,036</td>
<td>Dr.Timothy Bowles&lt;br&gt;University of California Berkeley&lt;br&gt;Amanda Hodson&lt;br&gt;University of California, Davis&lt;br&gt;Sara Tiffany&lt;br&gt;Community Alliance with Family Farmers</td>
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</table>
SW19-902  Potential Economic and Nitrogen Benefits of Fababean as a Double Purpose Cash and Cover Crop in Northern California  $348,772  Dr. Hossein Zakeri  California State University- Chico

SW19-908  Quantifying the effects of rangeland conversion on ecosystem functions: Linking land use systems to enhance farm profitability  $349,327  Fadzayi Elizabeth Mashiri  University of California

SW18-063  Quantifying the frequency and effects of secondary exposure to rodenticides in barn owls  $249,546  Dr. Joshua Hull  UC Davis

SW17-060  UAS (Unmanned Aerial System)-guided releases of predatory mites for management of spider mites in strawberry  $249,878  Dr. Elvira de Lange  University of California Davis

SW14-011  Farming for Native Bees  $247,649  Dr. Gordon Frankie  UC Berkeley

SW12-110  The interaction of rangeland management and environmental conditions in regulating forage quality & quantity and other ecosystem services  $265,414  Valerie Eviner  UC Davis

SW11-116  Integrated rotation systems for soil borne disease, weed and fertility management in strawberry/vegetable production  $218,424  Joji Muramoto  University of California, Santa Cruz

SW10-013  Control of Bacterial Wilt Disease of Ginger through an Integrated Pest Management Program  $289,245  Dr. Susan Miyasaka  University of Hawaii

SW10-801  A San Joaquin Valley Quilt: Stitching Together a Region’s Prosperity, Nutrition and Sustainability  $14,935  Daniel O’Connell  Sequoia Riverlands Trust

SW10-803  Sierra CRAFT  $30,653  Bill Bennett  High Sierra RC&D Council, Inc.

SW10-810  Developing regional distribution networks to enhance farmer prosperity: Retail value chains  $24,906  Dr. Gail Feenstra  UC SAREP/ASI

SW08-060  Triple-cropping Dairy Forage Production Systems Through Conservation Tillage in California’s San Joaquin Valley  $118,100  Dr. Jeff Mitchell  University of California, Davis

SW07-022  Using Nectar Cover Cropping in Vineyards for Sustainable Pest Management  $178,300  Mark Hoddle  University of California  Dr. Nic Irvin  University of California

SW06-033  Toward a Broader Vision of Sustainability: Social Equity in Sustainable Agriculture  $10,000  Ron Strochlic  California Institute for Rural Studies

SW06-038  Grazing Strategies to Control Medusahead in California  $138,539  Dr. Emilio Laca  UC Davis

SW06-091  Alternaria Control Using Biocontrol Yeast in Organic Pistachio Production Systems  $110,286  Dr. Dan Parfitt  UC Davis

SW05-078  Smart Energy Management in Agriculture  $68,208  Karyn Wolf Lynn  Ecological Farming Association
<table>
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<tr>
<th>Project Code</th>
<th>Title</th>
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<tr>
<td>SW04-058</td>
<td>Fresh, From Our Family to Yours: Direct Marketing Education for Producers</td>
<td>$98,395</td>
<td>Molly Johnson</td>
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<td>PlacerGROWN</td>
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<td>SW04-121</td>
<td>Farmland Tenure: A Tool Kit</td>
<td>$103,130</td>
<td>Steve Schwartz</td>
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<td>California FarmLink</td>
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<tr>
<td>SW04-127</td>
<td>Educational Workshops on Organic Dairy Management</td>
<td>$39,377</td>
<td>Ken Andersen</td>
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<td>University of California Cooperative Extension</td>
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<tr>
<td>SW03-037</td>
<td>Confirmation of Riparian Friendly Grazing Project Results and Development of Achievable, Site Specific Reference Conditions for Grazed Riparian Areas</td>
<td>$93,184</td>
<td>Dr. Kenneth Tate</td>
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<td>SW02-008</td>
<td>Evaluation of the Effects of Vineyard Floor Management Practices on Soil Microbiology</td>
<td>$27,496</td>
<td>Richard Smith</td>
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<td>SW02-020</td>
<td>Management of Vine Mealybugs in California’s San Joaquin Valley Through the Integration of Chemical and Biological Controls</td>
<td>$117,286</td>
<td>Kent Daane</td>
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<td>Division of Insect Biology, UC Berkeley</td>
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<td>Walter Bentley</td>
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<td>UC Statewide IPM Project</td>
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<td>SW02-034</td>
<td>Development and Dissemination of a Cowpea Cultivar for Cover Crops</td>
<td>$43,686</td>
<td>Dr. Milt McGiffen, Jr.</td>
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<td>SW02-035</td>
<td>Control of Western Tarnished Plant Bug (WTPB) Lygus hesperus Knight in Organic Strawberry Production Systems Using Trap Crops and Tractor-mounted Vacuums</td>
<td>$31,280</td>
<td>Dr. Sean Swezey</td>
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<td>Center for Agroecology and Sustainable Food System</td>
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<td>SW01-044</td>
<td>Riparian Friendly Grazing Project</td>
<td>$24,714</td>
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<td>SW01-057</td>
<td>Transition to Organic Vegetable Production by Large-Scale Conventional Farmers</td>
<td>$123,399</td>
<td>Louise Jackson</td>
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<td>SW99-008</td>
<td>The Transition from Conventional to Low-Input or Organic Farming Systems: Soil Biology, Soil Chemistry, Soil Physics, Energy Utilization, Economics, and Risk</td>
<td>$153,962</td>
<td>Steven Temple</td>
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<td>SW99-009</td>
<td>Rotations with Broccoli – A Sustainable Alternative to Soil Chemical Fumigants</td>
<td>$145,750</td>
<td>Krishna Subbarao</td>
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<td>SW98-044</td>
<td>Cropping Systems for Intensive Desert Vegetable Production</td>
<td>$130,672</td>
<td>Charles Sanchez</td>
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<td>Dr. Milt McGiffen, Jr.</td>
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<td>SW97-021</td>
<td>Reducing Insecticide Use on Celery Through Low Input Pest Management Strategies</td>
<td>$100,000</td>
<td>John T. Trumble</td>
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<td>University of California, Department of Entomology</td>
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<td>SW97-045</td>
<td>Decomposition and Nutrient Release Dynamics of Cover Crop Materials</td>
<td>$41,064</td>
<td>Dr. Jeff Mitchell</td>
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<tr>
<td>SW97-049</td>
<td>Development and Implementation of Trap Cropping Strategies for Control of Hemipteran Pests in Pistachio Orchards</td>
<td>$79,858</td>
<td>Kent Daane</td>
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<td>Division of Insect Biology, UC Berkeley</td>
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<td>SW96-012</td>
<td>The Transition from Conventional to Low-input or Organic Farming Systems: Soil Biology, Soil Chemistry, Soil Physics, Energy Utilization, Economics and Risk</td>
<td>$100,000</td>
<td>Steven Temple</td>
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<td>SW96-016</td>
<td>Tillage Practices for Improving Nitrogen Cycling and Soil Quality</td>
<td>$102,000</td>
<td>Louise Jackson</td>
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<td>SW96-021</td>
<td>Controlled Grazing on Foothill Rangelands</td>
<td>$40,750</td>
<td>Roger Ingram</td>
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<td>SW95-012</td>
<td>A Cover Crop System for Sustainable Grape Production in California – Beyond the Transition Phase</td>
<td>$122,559</td>
<td>Frank G. Zalom</td>
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<td>SW95-019</td>
<td>Development of a Farm-Wide System for Control of Many of the Principal Lepidopterous Pests of Grapes and Tree Fruits Based on Disruption of Premating Pheromone Communication Between Male and Female Moths</td>
<td>$120,770</td>
<td>Harry H. Shorey</td>
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<tr>
<td>SW95-024</td>
<td>Managing Soil Biota in Low-Input and Organic Farming Systems to Enhance Soil Fertility</td>
<td>$175,000</td>
<td>Kate Scow</td>
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<tr>
<td>SW94-017</td>
<td>The Transition from Conventional to Low-input or Organic Farming Systems: Soil Biology, Soil Chemistry, Soil Physics, Energy Utilization, Economics and Risk</td>
<td>$186,666</td>
<td>Steven Temple</td>
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<td>SW94-022</td>
<td>Western Region Community Supported Agriculture (CSA) Conference</td>
<td>$23,991</td>
<td>Jered Lawson</td>
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<td>SW94-037</td>
<td>Sierra County Alternative Agriculture Project</td>
<td>$12,000</td>
<td>Kim Joos</td>
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<td>SW94-054</td>
<td>Farming in the 21st Century: A Documentary Photography Project</td>
<td>$27,000</td>
<td>Cynthia L. Vagnetti</td>
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<td>LW91-026</td>
<td>Prune Refuges and Cover Crops to Facilitate Low-Input Production of California’s Raisin, Table, and Wine Grapes</td>
<td>$120,402</td>
<td>Frank G. Zalom</td>
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<td>LW91-028</td>
<td>A Multidisciplinary Approach to Evaluate and Aid the Transition From Conventional to Low-Input Pest Management Systems in Stone Fruits</td>
<td>$299,814</td>
<td>Kent Daane</td>
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<tr>
<td>LW91-030</td>
<td>Assisting Resource-Poor, Small-Scale Farmers with Adoption of Low-Input Technologies through a Client Participation Program of Cooperative Research and Extension at the Rural Development Center Near Salinas, California</td>
<td>$59,992</td>
<td>Paul Gersper</td>
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<td>LWD91-001</td>
<td>California Sustainable Agriculture Working Group</td>
<td>$6,500</td>
<td>Ronald E. Voss</td>
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<td>LW89-013</td>
<td>Application of Low-Volume Water Systems to the Cultural and Biological Control of Root Diseases</td>
<td>$325,160</td>
<td>Milton N. Schroth</td>
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### RESEARCH TO GRASS ROOTS GRANTS

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<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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<tbody>
<tr>
<td>WRGR22-007</td>
<td>Extending compost-induced disease suppressive soils to small-scale Latinx farmers</td>
<td>$82,713</td>
<td>Aysha Peterson, Resource Conservation District of Monterey County</td>
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<td>RGR20-006</td>
<td>Building on Farmer Experience to Increase Cover Crops Adoption in Orchards and Vineyards</td>
<td>$74,594</td>
<td>Dr. Sonja Brodt, Sonja Brodt, UC SAREP, Lucas Patzek, Napa County Resource Conservation District</td>
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<td>RGR20-010</td>
<td>Potter Valley Tribe’s Native Mushroom Cultivation from Waste Byproduct Substrate for Food Sovereignty</td>
<td>$12,106</td>
<td>Jade Swor, Potter Valley Tribe, Salvador Rosales, Sr., Potter Valley Tribe, Salvador Rosales, Jr., Potter Valley Tribe, Gregg Young, Potter Valley Tribe</td>
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### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

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<th>Project #</th>
<th>Project Title</th>
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<tr>
<td>WPDP22-015</td>
<td>Water Resource Enhancement and Climate Change Mitigation Through Strategic Agricultural Land Protection, Land Access, and Land Transitions</td>
<td>$99,965</td>
<td>Kara Heckert, American Farmland Trust, Beth Fraser, American Farmland Trust, Stacy Shutts, American Farmland Trust</td>
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<td>WPDP22-022</td>
<td>Advancing Knowledge of Soil Health Assessment and Management Through California’s North Coast Soil Hub</td>
<td>$78,167</td>
<td>Emilie Winfield, Marin Resource Conservation District, Keith Abeles, Sonoma Resource Conservation District, William Hart, Gold Ridge Resource Conservation District, Erica Lundquist, USDA-NRCS Ukiah Field Office, Sanjai Parikh, University of California Davis, Lucas Patzek, Napa County Resource Conservation District, Dr. Kerri Steenwerth, USDA/University of California Davis</td>
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<td>WPDP22-023</td>
<td>Closing the Regenerative Agriculture Economy Loop on Small Farms: A Training program for Agricultural Professionals and Curriculum for Small Farmers</td>
<td>$99,807</td>
<td>David Blume, Whiskey Hill Farm/Blume Distillation, Tom Harvey, Whiskey Hill Farm, Dr. Ronnie Lipschutz, Sustainable Systems Research Foundation</td>
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<td>Project Code</td>
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<td>Principal Investigator(s)</td>
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| WPDP22-003  | Scaling Regenerative Agriculture in California through NRCS and RCD Conservation Planner Training          | $99,917| Adria Arko  
San Mateo Resource Conservation District  
Jim Howard  
USDA Natural Resources Conservation Service  
Kevin Watt  
TomKat Ranch Educational Foundation / Left Coast Grass-Fed |
| WPDP21-005  | Farming Through Wildfire Season: Preparation, Resilience & Recovery                                      | $74,108| Evan Wiig  
Community Alliance with Family Farmers  
Natalia Pinzón Jiménez  
Rhizobia, LLC |
| WPDP21-022  | Empowering Agricultural Professionals to Support Beneficial Birds and Discourage Pest Birds                 | $93,851| Jo Ann Baumgartner  
Wild Farm Alliance  
Shelly Connor  
Wild Farm Alliance |
| WPDP21-009  | Building Capacity to Reduce Human-Wildlife Conflict                                                     | $79,037| Tracy Schohr  
UC Cooperative Extension  
Laura Snell  
UC Cooperative Extension |
| PDP20-009   | Filling the Gap - Exposing Agricultural Professionals to New and Innovative Small-Farm Tools             | $74,982| Rex Dufour  
National Center for Appropriate Technology (NCAT) |
| WPDP19-25   | Business of Farming (BoF) - Train the Trainer Program                                                    | $74,984| Carolina Martinez  
California Association for Micro Enterprise Opportunity  
Carla Holland  
San Diego Small Business Development Center |
| WPDP19-12   | From Classroom to the Field: Soil Health Bottom Line: Expanding Adoption of Healthy Soils Practices by Quantifying the Economic and Environmental Benefits to Growers | $75,000| Kara Heckert  
American Farmland Trust  
Anelkis Royce  
American Farmland Trust  
Anelkis Royce  
American Farmland Trust |
| EW18-024    | Organic Soil Health Education Resources for Agricultural Professionals in the Western Region             | $74,138| Brise Tencer  
Organic Farming Research Foundation |
| EW17-012    | Growing California Agritourism Communities                                                               | $73,010| Dr.Gail Feenstra  
UC SAREP/ASI |
| EW17-014    | Building Knowledge of Cover Cropping Techniques for Increased Adoption Rates                             | $52,172| Trina Walley  
East Stanislaus Resource Conservation District |
| EW16-018    | Facilitating Food Safety for Small, Sustainable Farms                                                  | $55,000| nathan harkleroad  
ALBA  
Kaley Grimland  
ALBA |
| EW16-015    | Harmonizing Organic Standards and Food Safety Metrics                                                   | $74,970| Dave Runsten  
Community Alliance with Family Farmers |
| EW16-026    | Assessment of Soil Biology and Plant Available Nitrogen for Soil Health and Water Quality               | $49,690| Hunter Francis  
CAFES Center for Sustainability |
| EW14-036    | Supporting Farmer Training Programs in the Western States through Professional Development and Collaboration | $29,977| nathan harkleroad  
ALBA |
| EW13-008    | High Residue Farming in the Irrigated Far West                                                          | $26,400| Andrew McGuire  
Washington State University Extension |
EW13-022  Development and training of a national spray application work group $57,862  Gwen-Alyn Hoheisel  Washington State University

EW13-025  Building Tools and Technical Capacity to Improve Irrigation and Nutrient Management on California’s Central Coast $39,564  Pamela Krone-Davis  Monterey Bay Sanctuary Foundation

EW13-027  Application of Lessons Learned from NRCS Rangeland CEAP: A site-specific, Low Cost System for Medusahead Control $68,469  Jeremy James  University of California

EW12-017  Training Manuals and Professional Development Activities for Teaching Organic Farming and Marketing $98,782  Dr. Daniel Press  University of California Santa Cruz  Ann Lindsey  University of California Santa Cruz

EW12-033  FARMING STRATEGIES FOR COPING WITH CLIMATE CHANGE $19,000  Renata Brillinger  California Climate & Agriculture Network

EW11-029  Cal Poly Professional Development Compost Training and Establishment of the Cal Poly Compost Project $57,582  Hunter Francis  CAFES Center for Sustainability

EW10-004  Capacity Building Workshops: Developing Regional Agritourism Networks for Agricultural Sustainability and Education $59,558  Penny Leff  UC Sustainable Agriculture Research and Education Program (UC SAREP)

EW10-005  Understanding the Climate Benefits of Sustainable Agriculture $11,905  Jeanne Merrill  CA Climate & Agriculture Network (CalCAN)  Renata Brillinger  California Climate & Agriculture Network

EW09-004  Ecology and Management of Grazing, An Online Course $84,826  Melvin George  University of California

EW04-012  Adding Value to Grassfed Beef Niche Marketing Efforts $60,000  Cynthia Daley  California State University, Chico

EW03-004  Field Course for Agricultural Professionals on the Common Goals and Strategies of USDA’s National organic Standards and Resource Conservation Programs $60,000  Rex Dufour  National Center for Appropriate Technology (NCAT)

EW03-007  Extending Hedgerow Systems in California Agriculture $60,000  Mark Cady  Community Alliance with Family Farmers

EW02-005  Organic Farming Principles, Practices, and Materials: Resources for Western Region Extension and USDA Professionals $101,907  Dr. Sean Swezey  Center for Agroecology and Sustainable Food System  David Chaney  SAREP

EW01-010  Training and Education Outreach to NRCS and University of California CES staff to Convey Animal Nutrition $81,950  Thomas Wehri  CA Association Resource Conservation Districts

EW01-013  Promotion of Intergenerational Farm Transfers for Agricultural Sustainability and Farmland Production $56,000  Steve Schwartz  California FarmLink

EW00-012  Sharing Resources to Help Connect Farmers to Direct Marketing Niches $96,578  David Chaney  SAREP
**FARMER/RANCHER GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
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<th>Project Leaders</th>
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<tr>
<td>FW22-408</td>
<td>Improving cost-effective testing and actionable understanding of holistic soil and plant nutrition for agroecological farmers</td>
<td>$24,834</td>
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<td>FW22-402</td>
<td>Testing new perennial intermediate wheatgrass for sustainable agriculture in California</td>
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<td>FW22-388</td>
<td>Implementing Whole Farm Cycling of Nutrients and Carbon with Orchard Waste in Walnut &amp; Cherry Production in Central Valley CA</td>
<td>$24,961</td>
<td>Franz Eilers John Eilers Farms</td>
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<td>FW22-392</td>
<td>Assessing the economic and social viability of transitioning to Winter CSA production as an adaptation strategy to climate change impacts</td>
<td>$24,950</td>
<td>Caitlin Hachmyer Red H Farm</td>
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<td>FW22-395</td>
<td>Analyzing Crop Profitability And Financial Metrics On Flower Farms</td>
<td>$27,462</td>
<td>Lennie Larkin B-Side Farm</td>
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<td>FW22-401</td>
<td>Rehydrating Toro Creek with Sustainable Agriculture: Traceland Farm Demonstration Project</td>
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<td>Jesse Trace Traceland</td>
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<td>FW21-376</td>
<td>Evaluating Different Value-added Grains for Lassen County</td>
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<td>Thomas Traphagan Sunset Ranch</td>
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<td>FW21-377</td>
<td>The effects of biochar soil amendments on industrial hemp yields</td>
<td>$25,000</td>
<td>Tony De Veyra Fifth World Llc</td>
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<td>Increased Profitability for Small Farms in Silicon Valley Through Year-Round Production of Baby Greens</td>
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<td>FW21-386</td>
<td>Improving Soil Health with biochar and compost application in North Coast Vineyards</td>
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<td>Using Flavonoid and Polyphenol Testing of Honey to Improve Consumer Education</td>
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<td>FW20-364</td>
<td>Adding value to grassfed cattle operations by restoring rangeland health with targeted grazing on California's Central Coast</td>
<td>$19,673</td>
<td>Elizabeth Reikowski</td>
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<td>FW20-365</td>
<td>Mitigating on-farm toxins using fungi: a case study on two farms.</td>
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<td>FW19-346</td>
<td>Grazing of annual brassicas to extend grazing season in summer-dry pastures in Northern California</td>
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<td>Cody Wood</td>
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<td>FW19-355</td>
<td>Drill-seeding blue oak acorns: a new method for restoration in California’s rangelands.</td>
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<td>FW18-027</td>
<td>Farm-to-Glass: Performance Testing Different Varieties of Malting Barley</td>
<td>$19,908</td>
<td>Bob Adams</td>
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<td>FW18-042</td>
<td>Converting tree nut byproducts into gourmet mushrooms and mulches</td>
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<td>FW18-044</td>
<td>Examining the practical on-ranch application and benefits of low-stress herding and stockmanship techniques</td>
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<td>Honeybee Regeneration Project</td>
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<td>FW16-033</td>
<td>Sorrel Pesto: The Positive Implications of Sorrel as a Substitute for Basil in Pesto Production</td>
<td>$19,710</td>
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<td>FW16-034</td>
<td>Sustainable Irrigation Demonstration Project: Demonstrating Irrigation Efficiency in California Winegrapes through Advanced Practices and Technologies</td>
<td>$19,180</td>
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<td>FW16-036</td>
<td>Improving Water Use Efficiency in Conventional and Organic Almonds through Data Driven Irrigation</td>
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<td>FW15-029</td>
<td>High Desert High Tunnels</td>
<td>$5,183</td>
<td>Laurie Wayne</td>
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<td>FW14-024</td>
<td>Vines And Ovines: Benefits of Target Grazing to Sheep and Vineyard Industries</td>
<td>$14,991</td>
<td>Jaime Irwin</td>
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| FW11-037     | Use of Wood Ash as Soil Amendment on Annual Rangelands                               | $28,995 | Mel Thompson  
Sierra Farms  
Glenn Nader  
University of California Cooperative Extension |
| FW10-037     | Woolgathering on the Farm                                                            | $7,165  | Sophie Sheppard  
Woolgathering                                                                 |
| FW08-030     | Creating and Marketing Value-Added Orchard Products                                  | $15,000 | Nicholas Salle  
Salle Orchards  
Billie Jean Salle  
Salle Orchards                                                                 |
| FW08-047     | Sierra Nevada Small Farm Progress Days                                               | $27,370 | Dan Macon                                                                                   |
| FW08-311     | Restoring Plant Diversity and Soil Health in Napa and Sonoma Vineyards: scaling up an agroecologically based pest management strategy | $30,000 | Houston Wilson  
UC Berkeley -- ESPM  
Miguel Altieri  
University of California, Berkeley |
| FW08-312     | Effects of Aleutian Geese on Humboldt County Pastures                               | $28,540 | Alan Bower  
University of California Davis                                                                 |
| FW08-315     | Vines and Ovines: Using Trained Sheep for Vineyard Floor Grazing                     | $29,193 | Morgan Doran  
University of California                                                                 |
| FW08-324     | Placer Ag Futures Project                                                            | $25,670 | Bill Bennett  
High Sierra RC&D Council, Inc.  
Kay Joy Barge  
High Sierra Resource                                                                 |
| FW07-303     | Farm Direct Distribution                                                             | $25,444 | Brigitte Moran  
Marin Farmers Market Association                                                                 |
| FW07-311     | Building on Organic Knowledge: On-Farm Transfer of a Trap Cropping Method to Control Lygus Bug in Conventional Strawberry Production | $14,864 | Dr. Sean Swezey  
Center for Agroecology and Sustainable Food System                                                                 |
| FW07-324     | Management Challenges for Dairy Goat Sustainability                                  | $15,360 | Deborah Giraud  
University of California                                                                 |
| FW06-304     | Using Molasses as an Attractant for Concentrating Grazing on Medusahead               | $3,479  | Morgan Doran  
University of California                                                                 |
| FW06-308     | Conservation Tillage Forage Production in California’s San Joaquin Valley           | $9,400  | Dr. Jeff Mitchell  
University of California, Davis                                                                 |
| FW05-020     | Goats in the Chaparral                                                               | $19,990 | Bill Burrows                                                                 |
| FW05-026     | Sustaining an Agricultural Region: Capay Valley Grown                                | $14,980 | Judith Redmond  
Full Beily Farm                                                                 |
| FW05-030     | Evaluation of abalone effluent for reclamation                                       | $7,685  | Douglas Bush  
The Cultured Abalone                                                                 |
| FW04-024     | A pilot project for zero discharge farming                                          | $3,250  | Alan Haight  
Riverhill Farm                                                                 |
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<td>FW04-028</td>
<td>Organic Vineyard/Orchard Weed and Grass Management Using Miniature Sheep</td>
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<td>Deborah Walton</td>
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<td>FW04-111</td>
<td>Marketing Locally Grown</td>
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<td>Mary Ann Vasconcellos</td>
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<td>FW03-007</td>
<td>Integrated Pest Management and Sustainable Grape Production in Sonoma County</td>
<td>$13,000</td>
<td>Nick Frey</td>
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<td>FW03-009</td>
<td>Unconventional Conversion: Cultivating Sustainability in Citrus and Avocado</td>
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<td>FW03-010</td>
<td>Increasing Adoption of Sustainable Practices in Central Coast Vineyards</td>
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<td>FW03-013</td>
<td>Can Llamas Be an Effective Tool for Predator Control?</td>
<td>$6,500</td>
<td>Jill Hackett</td>
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<td>FW03-015</td>
<td>Pastured Pork: Economics of Intensive Grazing in the Western United States</td>
<td>$6,550</td>
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<td>Conservation of Groundwater Resources in the Mojave High Desert Region</td>
<td>$6,285</td>
<td>Grant Poole</td>
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<td>FW02-211</td>
<td>Marin Organic’s Cooperative Marketing Outreach</td>
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<td>FW02-213</td>
<td>Establishing a Market for Sustainable Agricultural Products in Sierra Nevada</td>
<td>$12,900</td>
<td>Ed Rich</td>
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<td>Symphylan: A growing menace. A look into its detection, damage, and control in</td>
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<td>a small-scale Biointensive Community Supported Agriculture Project.</td>
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<td>Production of Strawberry Plants using Sterile Soil Amendments</td>
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<td>Tracking Costs and Returns in a Transition to Grass-Based Dairying</td>
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<td>Soil Solarization for Weed and Disease Control in Specialty Crops</td>
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<td>FW00-021</td>
<td>Water Use of Wine Grapes in the Granitic Soils of the Fair Play Wine Region</td>
<td>$10,000</td>
<td>Brian Fitzpatrick</td>
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</table>
Moving From Selling Through Intermediaries to Direct Marketing Using Cause Related Marketing Strategy

Test Marketing Pasture Produced Artisan Cheeses

Good Humus Produce Farm to School Project

Converting Dairy Waste into More Usable Products through Vermiculture

Central Coast Vineyard Team Positive Points System Evaluation and Education Program

Soil Solarization as a Methyl Bromide Alternative in Strawberries

Solarization for Small Farm “Specialty Crops”

Goats as a Source of Weed and Brush Control in Forest Plantations

Feasibility of Soil Solarization for Strawberry Production on the Central Coast of California

Individual Confinement Rearing vs. Pasture-Based Group Rearing of Dairy Calves

Vermicomposting Demonstration Project

Pheromone Foggers for Pesticide Replacement

Farming, Agriculture, and Resource Management for Sustainability (F.A.R.M.S.)

Monitoring Program for Biologically Integrated Orchard Systems (BIOS) in Walnuts

Hopes of dry land: Managing soils to improve fruit yield and quality in dry farm tomatoes

What is a Healthy Soil for Wine Grape Production? Assessing Soil Health Across California Vineyards

GRADUATE STUDENT GRANTS
<table>
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<tr>
<th>Project Code</th>
<th>Title</th>
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<th>Principal Investigators</th>
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| GW20-203    | Grazing for change: Connecting soil health and ranch viability using adaptive multi-paddock grazing | $24,867      | Dr. Timothy Bowles  
University of California Berkeley  
Lynn Huntsinger, PhD  
University of California, Berkeley  
Paige Stanley  
University of California, Berkeley |
| GW20-207    | Cover crops to enhance control of leaf-footed bug, Leptoglossus zonatus, in California tree nut crops | $24,796      | Dr. Houston Wilson  
University of California, Riverside  
Dr. Kent Daane  
University of California, Berkeley  
Rob Straser  
University of California, Riverside |
| GW20-216    | Network analysis of organic seed systems: a systems-level analysis for resilience | $24,997      | Mark Lubell  
University of California, Davis  
Liza Wood  
University of California, Davis  
Jared Zystro  
Organic Seed Alliance  
Liza Wood  
University of California, Davis |
| GW19-191    | Systems approaches to co-manage disease, water and soil health for sustainable processing tomato production in the Western region | $25,000      | Dr. Cassandra Swett  
UC Davis  
Justine Beaulieu  
UC Davis |
| GW19-193    | Conventional vs. regenerative almond orchards, with regards to invertebrate biomass and biodiversity, soil health, food safety, and profitability | $25,000      | Dr. Jonathan Lundgren, PhD  
Ecdysis Foundation  
Dr. Patty Oikawa  
California State University East Bay  
Dr. Erica Wildy  
California State University East Bay  
Thomas Fenster  
University of California, Davis |
| GW19-194    | Sustainable orchard intensification: Cover crops and management intensity | $24,944      | Bradley Hanson  
University of California, Davis  
Steven Haring  
University of California, Davis |
| GW19-200    | Natural pest control in a working agricultural landscape: Investigating the impact of rodent control on beneficial hawks and owls | $24,997      | Dr. Joshua Hull  
UC Davis  
Dr. Sara Kross  
Columbia University  
Breanna Martinico  
UC Davis |
| GW18-062    | Development of New Selection Tools and Crop Varieties for Sustainable Agriculture | $24,443      | Paul Gepts  
University of California - Davis  
Travis Parker  
University of California - Davis |
| GW18-020    | New Ranchers, New Needs: Why are first-generational ranchers deciding against traditional climate adaptation strategies? | $24,982      | Leslie Roche  
UC Davis  
Katherine Munden-Dixon  
University of California - Davis |
| GW18-041    | Insect Discovery and Breeding as Tools for Sustainable Solutions to Organic Waste Management | $24,942      | Dr. Christian Nansen  
University of California, Davis  
Trevor Fowles  
University of California, Davis |
| GW18-142    | Cover Crop Systems for Almond Orchards: Exploring Benefits and Tradeoffs to Inform Management | $24,852      | William Horwath  
University of California, Davis  
Cynthia Creze  
University of California, Davis |
| GW18-126    | Increasing the sustainability of dairy cattle by providing genetic tools to reduce lameness, improving welfare and production | $23,623      | Dr. Anita Oberbauer  
University of California, Davis  
Ellen Lai  
University of California, Davis |
| GW17-032 | Management of Fusarium Wilt of Strawberry through Crop Rotation | $24,999 | Dr. Thomas Gordon  
UC Davis Dept. Plant Pathology  
Peter Henry  
University of California at Davis |
|---|---|---|---|
| GW16-044 | A Collaborative Approach to Integrated Pest Management of Tadpole Shrimp in California Rice Fields. | $24,928 | Larry Godfrey  
University of California, Davis  
Joanna Bloese  
University of California, Davis |
| GW13-011 | Compost-Induced Disease Suppressive Soils for Control of Verticillium Wilt of Strawberry | $24,992 | Tom Gordon  
UC Davis  
Margaret Lloyd  
UC Davis |
| GW13-018 | Best management practices that promote sustainable crop pollination: the role of crop rotations and tillage depth | $24,954 | Neal Williams  
University of California, Davis  
Katharina Ullmann  
University of California, Davis |
| GW12-024 | Ecosystem Services in Hedgerow Restorations: Pollination Function and Nesting Habitat | $17,882 | Dr. Claire Kremen  
University of California, Berkeley  
Hillary Sardinas  
UC Berkeley |
| GW11-001 | Pastured Poultry/Crop Systems and Their Effect on Food Safety, Farm Economy, and Soil Quality | $24,807 | Dr. Kathleen Hilimire  
University of California, Santa Cruz  
Stephen R. Gliessman  
University of California |
| GW11-012 | Facilitating Integrated Weed Management in California Rice: Predicting E. spp. and C. difformis emergence across heterogeneous growing environments | $17,120 | Dr. Chris van Kessel  
University of California, Davis  
Dr. Mark Lundy  
University of California Cooperative Extension |
| GW10-010 | Irrigation Alternatives for Sustainable Water Use of Processing Tomatoes | $25,000 | Louise Jackson  
UC Davis  
Felipe Barrios Masias  
Board of Regents, NSHE, obo University of Nevada, Reno |
| GW09-018 | Promoting Native Bumblebees in Agricultural systems for conservation and ecosystem service | $20,074 | Dr. Claire Kremen  
University of California, Berkeley  
Dr. Alexandra Harmon-Threatt  
University of Illinois, Urbana-Champaign |
| GW08-015 | Screening for non-host rotation crops of Colletotrichum acutatum for strawberry nurseries in California | $19,535 | W. Douglas Gubler  
University of California, Davis  
Joseph Jertberg  
UC Davis Plant Pathology Department |
| GW08-018 | Solarization and steam heat combined to control weeds in strawberry | $19,974 | Steve Fennimore  
University of California, Davis  
Celeste Gilbert  
University of California, Davis |
| GW07-003 | Sustainable Landscapes: Investigating the Landscape Scale Effects of Riparian Habitat on Natural Pest Control | $17,950 | Suzanne Langridge  
University of California |
| GW07-006 | Risk, Rate, and Impact of Medusahead Invasion of California Savannas | $19,971 | Dr. Emilio Laca  
UC Davis  
Corey Cherr  
University of California, Davis |
| GW07-012 | Managing Soil Food Webs for Enriched and Suppressive Soils: Effects of Cover Crop Diversity and Quality | $19,235 | Tianna Dupont  
University of California at Davis |
| GW06-004 | Linking C and N Cycling to Microbial Community Function in Cover Crop Systems | $9,995 | Angela Yin Yee Kong  
University of California, Davis |
GW06-007  Pest Control Services from Natural Habitat  $9,650  Rebecca Chaplin
University of California, Berkeley

GW06-016  Investigating the Effect of Hedgerows to Enhance Natural Biological Control  $10,000  Tara Pisani Gareau
University of California, Santa Cruz

GW06-017  Understanding N Fixation by Legume Cover Crops in Organic Vegetable Systems  $10,000  Carol Shennan
University of California, Santa Cruz
Katie Monsen
University of California Santa Cruz

GW06-029  Sheep Grazing as a Tool for Vernal Pool Stewardship  $8,813  J. Hall Cushman
Sonoma State University
Joan Schwan
Sonoma State University

GW06-030  Developing a Management Plan for Reducing Thrips-induced Damage on Timothy Hay  $10,000  Larry Godfrey
University of California, Davis
Daniel Marcum
University of California
Domic Reisig
University of California, Davis

ON FARM RESEARCH/PARTNERSHIP GRANTS

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| OW22-373  | Targeted Grazing for Fuel Load Reduction                                       | $74,811      | Dr. Stephanie Larson
University of California Cooperative Extension |
| OW20-360  | Solarization and Biosolarization: Harnessing the Sun and Organic Matter to Control Weeds | $49,956      | Martin Guerena
National Center for Appropriate Technology |
| OW19-339  | Collaboration to demonstrate the potential use and value of electronic identification and DNA testing in the sheep industry | $50,000      | Julie Finzel
The Regents of the University of California, Agriculture and Natural Resources
Dr. Alison Van Eenennaam
UCANR |
| OW19-345  | Effects of Occultation on Weed Pressure, Labor Costs, Product Quality, and Yield in Sustainable Vegetable Production in Northern California | $49,994      | Dave Runsten
Community Alliance with Family Farmers
Kali Feiereisel
Community Alliance With Family Farmers |
| OW19-349  | Amador Rangeland Soil Health Research and Education Project                    | $49,139      | Amanda Watson
Amador Resource Conservation District |
| OW19-351  | A Collaborative Beneficial Insect and Pheromone Mating Disruption Demonstration Project | $50,000      | Dr. Stephanie Bolton
Lodi Winegrape Commission |
| OW18-013  | Early Weaning of Beef Calves: A Drought Management Strategy on Annual Rangelands | $41,184      | Dan Macon
University of California Cooperative Extension |
| OW17-043  | Beginning-farmer Research and Instruction on Growing in High Tunnels           | $49,999      | nathan harkleroad
ALBA |
| OW17-054  | Advancing sustainable nitrogen management in strawberries through participatory research and education | $49,937      | Sacha Lozano
Resource Conservation District of Santa Cruz County |
| OW16-013  | Irrigated Pastureland Enhancement Program                                       | $49,774      | Leslie Roche
UC Davis
Dan Macon
UC Cooperative Extension |
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<td>OW14-032</td>
<td>Selecting and Managing Vineyard Cover Crops to Reduce Consumption of Net Basin Water</td>
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<td>Fritz Westover&lt;br&gt;Vineyard Team&lt;br&gt;Kris Beal&lt;br&gt;Vineyard Team</td>
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<td>OW13-062</td>
<td>Empowering Socially-Disadvantaged Farmers to Investigate Nitrogen Management in High-Value Vegetable Crops</td>
<td>$45,527</td>
<td>nathan harkleroad&lt;br&gt;ALBA</td>
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<td>OW12-008</td>
<td>Water Management in Sonoma County Grape Production</td>
<td>$49,200</td>
<td>Karen Thomas&lt;br&gt;Sonoma County Winegrape Commission</td>
</tr>
<tr>
<td>OW11-318</td>
<td>Pomo Tribal Supported Agriculture Program</td>
<td>$49,963</td>
<td>Rachel Whetstone&lt;br&gt;Hopland Band of Pomo Indians&lt;br&gt;Terri McCartney&lt;br&gt;Coordinator</td>
</tr>
</tbody>
</table>

**Total funding from the USDA SARE program to California**

$14,838,190

For further information on projects, contact Western SARE at (406) 994-4789 or wsare@montana.edu.

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