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 $332 million to more than 7,748 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, granteeproduced information products and other educational materials.

SARE in California

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

$13,180,320 in total funding

218 grant projects (since 1988)

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


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 Grants in California

Total awards: **218 grants**
- 63 Research and Education
- 38 Professional Development Program
- 67 Farmer/Rancher
- 35 Graduate Student
- 13 On Farm Research/Partnership
- 2 Research to Grass Roots

Total funding: **$13,180,320**
- $8,320,099 Research and Education
- $2,502,547 Professional Development Program
- $910,875 Farmer/Rancher
- $725,959 Graduate Student
- $634,140 On Farm Research/Partnership
- $86,700 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.
California has been awarded $13,180,320 grants to support 210 projects, including but not limited to, 55 research and/or education projects, 38 professional development projects and 67 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>
</tr>
</thead>
<tbody>
<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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<tr>
<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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<tr>
<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;Dr. Paul Rogé&lt;br&gt;MESA, Inc.</td>
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<tr>
<td>SW19-902</td>
<td>Potential Economic and Nitrogen Benefits of Fababean as a Double Purpose Cash and Cover Crop in Northern California</td>
<td>$348,772</td>
<td>Dr. Hossein Zakeri&lt;br&gt;California State University- Chico</td>
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<tr>
<td>SW19-908</td>
<td>Quantifying the effects of rangeland conversion on ecosystem functions: Linking land use systems to enhance farm profitability</td>
<td>$349,327</td>
<td>Fadzayi Elizabeth Mashiri&lt;br&gt;University of California</td>
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<tr>
<td>SW18-063</td>
<td>Quantifying the frequency and effects of secondary exposure to rodenticides in barn owls</td>
<td>$249,546</td>
<td>Dr. Joshua Hull&lt;br&gt;UC Davis</td>
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<tr>
<td>SW17-060</td>
<td>UAS (Unmanned Aerial System)-guided releases of predatory mites for management of spider mites in strawberry</td>
<td>$249,878</td>
<td>Dr. Elvira de Lange&lt;br&gt;University of California Davis</td>
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<tr>
<td>SW14-011</td>
<td>Farming for Native Bees</td>
<td>$247,649</td>
<td>Dr. Gordon Frankie&lt;br&gt;UC Berkeley</td>
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<td>SW12-110</td>
<td>The interaction of rangeland management and environmental conditions in regulating forage quality &amp; quantity and other ecosystem services</td>
<td>$265,414</td>
<td>Valerie Eviner&lt;br&gt;UC Davis</td>
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<tr>
<td>SW11-116</td>
<td>Integrated rotation systems for soil borne disease, weed and fertility management in strawberry/vegetable production</td>
<td>$218,424</td>
<td>Joji Muramoto&lt;br&gt;University of California, Santa Cruz</td>
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<tr>
<td>Code</td>
<td>Title</td>
<td>Amount</td>
<td>Principal Investigator</td>
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<tr>
<td>SW10-013</td>
<td>Control of Bacterial Wilt Disease of Ginger through an Integrated Pest Management Program</td>
<td>$289,245</td>
<td>Dr. Susan Miyasaka</td>
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<tr>
<td>SW10-801</td>
<td>A San Joaquin Valley Quilt: Stitching Together a Region’s Prosperity, Nutrition and Sustainability</td>
<td>$14,935</td>
<td>Daniel O’Connell</td>
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<td>SW10-803</td>
<td>Sierra CRAFT</td>
<td>$30,653</td>
<td>Bill Bennett</td>
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<tr>
<td>SW10-810</td>
<td>Developing regional distribution networks to enhance farmer prosperity: Retail value chains</td>
<td>$24,906</td>
<td>Dr. Gail Feenstra</td>
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<td>SW08-060</td>
<td>Triple-cropping Dairy Forage Production Systems Through Conservation Tillage in California’s San Joaquin Valley</td>
<td>$118,100</td>
<td>Dr. Jeff Mitchell</td>
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<tr>
<td>SW07-022</td>
<td>Using Nectar Cover Cropping in Vineyards for Sustainable Pest Management</td>
<td>$178,300</td>
<td>Mark Hoddle</td>
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<td>SW06-033</td>
<td>Toward a Broader Vision of Sustainability: Social Equity in Sustainable Agriculture</td>
<td>$10,000</td>
<td>Ron Strochlic</td>
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<td>SW06-038</td>
<td>Grazing Strategies to Control Medusahead in California</td>
<td>$138,539</td>
<td>Dr. Emilio Laca</td>
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<tr>
<td>SW06-091</td>
<td>Alternaria Control Using Biocontrol Yeast in Organic Pistachio Production Systems</td>
<td>$110,286</td>
<td>Dr. Dan Parfitt</td>
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<tr>
<td>SW05-078</td>
<td>Smart Energy Management in Agriculture</td>
<td>$68,208</td>
<td>Karyn Wolf Lynn</td>
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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>SW04-121</td>
<td>Farmland Tenure: A Tool Kit</td>
<td>$103,130</td>
<td>Steve Schwartz</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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<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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<tr>
<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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<tr>
<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></td>
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<td>Walter Bentley</td>
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<tr>
<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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</tbody>
</table>
SW02-035  Control of Western Tarnished Plant Bug (WTPB) Lygus hesperus Knight in Organic Strawberry Production Systems Using Trap Crops and Tractor-mounted Vacuums

$31,280  Dr. Sean Swezey  Center for Agroecology and Sustainable Food System

SW01-044  Riparian Friendly Grazing Project

$24,714  Dr. Kenneth Tate  University of California Davis

SW01-057  Transition to Organic Vegetable Production by Large-Scale Conventional Farmers

$123,399  Louise Jackson  UC Davis

SW99-008  The Transition from Conventional to Low-Input or Organic Farming Systems: Soil Biology, Soil Chemistry, Soil Physics, Energy Utilization, Economics, and Risk

$153,962  Steven Temple  University of California

SW99-009  Rotations with Broccoli - A Sustainable Alternative to Soil Chemical Fumigants

$145,750  Krishna Subbarao  University of California, Davis

SW98-044  Cropping Systems for Intensive Desert Vegetable Production

$130,672  Charles Sanchez  University of Arizona

SW97-021  Reducing Insecticide Use on Celery Through Low Input Pest Management Strategies

$100,000  John T. Trumble  University of California, Department of Entomology

SW97-045  Decomposition and Nutrient Release Dynamics of Cover Crop Materials

$41,064  Dr. Jeff Mitchell  University of California, Davis

SW97-049  Development and Implementation of Trap Cropping Strategies for Control of Hemipteran Pests in Pistachio Orchards

$79,858  Kent Daane  Division of Insect Biology, UC Berkeley

SW96-012  The Transition from Conventional to Low-input or Organic Farming Systems: Soil Biology, Soil Chemistry, Soil Physics, Energy Utilization, Economics and Risk

$100,000  Steven Temple  University of California

SW96-016  Tillage Practices for Improving Nitrogen Cycling and Soil Quality

$102,000  Louise Jackson  UC Davis

SW96-021  Controlled Grazing on Foothill Rangelands

$40,750  Roger Ingram  University of California Cooperative Extension

SW95-012  A Cover Crop System for Sustainable Grape Production in California - Beyond the Transition Phase

$122,559  Frank G. Zalom  University of California

SW95-019  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

$120,770  Harry H. Shorey  University of California

SW95-024  Managing Soil Biota in Low-Input and Organic Farming Systems to Enhance Soil Fertility

$175,000  Kate Scow  University of California, Dept. of Land, Air, and Water Resources
The Transition from Conventional to Low-input or Organic Farming Systems: Soil Biology, Soil Chemistry, Soil Physics, Energy Utilization, Economics and Risk

$186,666
Steven Temple
University of California

Western Region Community Supported Agriculture (CSA) Conference

$23,991
Jered Lawson
CSA West

Sierra County Alternative Agriculture Project

$12,000
Kim Joos
Sierra County Economic Council

Farming in the 21st Century: A Documentary Photography Project

$27,000
Cynthia L. Vagnetti

Prune Refuges and Cover Crops to Facilitate Low-Input Production of California’s Raisin, Table, and Wine Grapes

$120,402
Frank G. Zalom
University of California

A Multidisciplinary Approach to Evaluate and Aid the Transition From Conventional to Low-Input Pest Management Systems in Stone Fruits

$299,814
Kent Daane
Division of Insect Biology, UC Berkeley

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

$59,992
Paul Gersper
University of California

California Sustainable Agriculture Working Group

$6,500
Ronald E. Voss
University of California, Vegetable Research & Information Center

Application of Low-Volume Water Systems to the Cultural and Biological Control of Root Diseases

$325,160
Milton N. Schroth
University of California

A Comparison of Conventional, Low-Input and Organic Farming Systems: The Transition Phase and Long-Term Viability

$600,000
Steven Temple
University of California

Cover Crop Information for Researchers and Farmers

$90,000
Robert Bugg
University of California

Information Delivery Systems for Use in Implementation of Lisa (SARE) Research and Technology

$182,000
Ronald E. Voss
University of California, Vegetable Research & Information Center

Comparative Study of Established Organic and Conventional Tomato Production Systems in California

$509,447
Carol Shennan
University of California, Santa Cruz

BUILDING ON FARMER EXPERIENCE TO INCREASE COVER CROPS ADOPTION IN ORCHARDS AND VINEYARDS

$74,594
Dr. Sonja Brodt
University of California Sustainable Agriculture Research & Education Program
Lucas Patzek
Napa County Resource Conservation District

LND91-001

LW91-030

LW91-028

LW91-026

LW89-013

LW91-025

LW89-018

LW89-020

LW89-021

LW88-003
### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

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<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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<tbody>
<tr>
<td>WPDP21-009</td>
<td>Building Capacity to Reduce Human-Wildlife Conflict</td>
<td>$79,037</td>
<td>Tracy Schohr&lt;br&gt;UC Cooperative Extension&lt;br&gt;Laura Snell&lt;br&gt;UC Cooperative Extension</td>
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<tr>
<td>WPDP21-022</td>
<td>Empowering Agricultural Professionals to Support Beneficial Birds and Discourage Pest Birds</td>
<td>$93,851</td>
<td>Jo Ann Baumgartner&lt;br&gt;Wild Farm Alliance&lt;br&gt;Shelly Connor&lt;br&gt;Wild Farm Alliance</td>
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<tr>
<td>WPDP21-005</td>
<td>Farming Through Wildfire Season: Preparation, Resilience &amp; Recovery</td>
<td>$74,108</td>
<td>Evan Wiig&lt;br&gt;Community Alliance with Family Farmers&lt;br&gt;Natalia Pinzón Jiménez&lt;br&gt;Rhizobia, LLC</td>
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<tr>
<td>PDP20-009</td>
<td>Filling the Gap – Exposing Agricultural Professionals to New and Innovative Small-Farm Tools</td>
<td>$74,982</td>
<td>Rex Dufour&lt;br&gt;National Center for Appropriate Technology (NCAT)</td>
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<tr>
<td>WPDP19-25</td>
<td>Business of Farming (BoF) - Train the Trainer Program</td>
<td>$74,984</td>
<td>Carolina Martinez&lt;br&gt;California Association for Micro Enterprise Opportunity&lt;br&gt;Carla Holland&lt;br&gt;San Diego Small Business Development Center&lt;br&gt;Andrew Seko&lt;br&gt;CAMEO</td>
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<tr>
<td>WPDP19-12</td>
<td>From Classroom to the Field: Soil Health Bottom Line: Expanding Adoption of Healthy Soils Practices by Quantifying the Economic and Environmental Benefits to Growers</td>
<td>$75,000</td>
<td>Kara Heckert&lt;br&gt;American Farmland Trust&lt;br&gt;Anelkis Royce&lt;br&gt;American Farmland Trust&lt;br&gt;Anelkis Royce&lt;br&gt;American Farmland Trust</td>
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<td>EW18-024</td>
<td>Organic Soil Health Education Resources for Agricultural Professionals in the Western Region</td>
<td>$74,138</td>
<td>Brise Tencer&lt;br&gt;Organic Farming Research Foundation</td>
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<tr>
<td>EW17-012</td>
<td>Growing California Agritourism Communities</td>
<td>$73,010</td>
<td>Dr. Gail Feenstra&lt;br&gt;UC SAREP/ASI</td>
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<tr>
<td>EW17-014</td>
<td>Building Knowledge of Cover Cropping Techniques for Increased Adoption Rates</td>
<td>$52,172</td>
<td>Trina Walley&lt;br&gt;East Stanislaus Resource Conservation District</td>
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<tr>
<td>EW16-018</td>
<td>Facilitating Food Safety for Small, Sustainable Farms</td>
<td>$55,000</td>
<td>nathan harkleroad&lt;br&gt;ALBA&lt;br&gt;Kaley Grimland&lt;br&gt;ALBA</td>
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<tr>
<td>EW16-015</td>
<td>Harmonizing Organic Standards and Food Safety Metrics</td>
<td>$74,970</td>
<td>Dave Runsten&lt;br&gt;Community Alliance with Family Farmers</td>
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<tr>
<td>EW16-026</td>
<td>Assessment of Soil Biology and Plant Available Nitrogen for Soil Health and Water Quality</td>
<td>$49,690</td>
<td>Hunter Francis&lt;br&gt;CAFES Center for Sustainability</td>
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<tr>
<td>Project Code</td>
<td>Description</td>
<td>Cost</td>
<td>Principal Investigator(s)</td>
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</tbody>
</table>
| 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                                               |
<table>
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<tr>
<th>Project #</th>
<th>Project Title</th>
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<tbody>
<tr>
<td>EW01-013</td>
<td>Promotion of Intergenerational Farm Transfers for Agricultural Sustainability and Farmland Production</td>
<td>$56,000</td>
<td>Steve Schwartz California FarmLink</td>
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<tr>
<td>EW00-012</td>
<td>Sharing Resources to Help Connect Farmers to Direct Marketing Niches</td>
<td>$96,578</td>
<td>David Chaney SAREP</td>
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<tr>
<td>EW98-001</td>
<td>Broadening the Audience: Providing Sustainable Agriculture Education for Pest Control Advisers and Agricultural Consultants in California and Oregon</td>
<td>$80,100</td>
<td>David Chaney SAREP</td>
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<td>EW97-002</td>
<td>Sustainable Range &amp; Pasture Livestock &amp; Dairy Production Training For Resource Professionals</td>
<td>$29,000</td>
<td>Roger Ingram University of California Cooperative Extension</td>
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<tr>
<td>EW96-005</td>
<td>Multidisciplinary On-Site Training in Sustainable Agriculture Education</td>
<td>$97,432</td>
<td>Steven Temple University of California</td>
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<tr>
<td>EW96-009</td>
<td>Sustainable Agriculture Curriculum Development Project for Extension Professionals in California’s San Joaquin Valley and Central Coast Regions</td>
<td>$98,773</td>
<td>David Chaney SAREP</td>
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<tr>
<td>EW96-010</td>
<td>Sustainable Arid Land Grazing Systems: Training for Managers of Public Land and Reserves</td>
<td>$29,000</td>
<td>William Olkowski Bio-Integral Resource Center (South)</td>
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<tr>
<td>EW96-011</td>
<td>Professional Training in Biologically Integrated Orchard Systems</td>
<td>$155,940</td>
<td>Jill Klein Com. Alliance w/ Family Farmers/BIOS Training Prop. for SARE</td>
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<tr>
<td>EW95-015</td>
<td>A Consortium-Based Sustainable Agriculture Training Program (SATP) Curriculum Plan</td>
<td>$20,000</td>
<td>Dr. Sean Swezey Center for Agroecology and Sustainable Food System</td>
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<tr>
<td>EW94-003</td>
<td>Multidisciplinary On-Site Training in Sustainable Agriculture Education</td>
<td>$71,000</td>
<td>Steven Temple University of California</td>
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**FARMER/RANCHER GRANTS**

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<tr>
<th>Project #</th>
<th>Project Title</th>
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<tbody>
<tr>
<td>FW21-376</td>
<td>Evaluating Different Value-added Grains for Lassen County</td>
<td>$25,000</td>
<td>Thomas Traphagan Sunset Ranch</td>
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<tr>
<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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<tr>
<td>FW21-379</td>
<td>Increasing food yields from urban and peri-urban farms through deployment of small-scale agricultural technologies</td>
<td>$25,000</td>
<td>David Blume Whiskey Hill Farm/Blume Distillation</td>
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<tr>
<td>FW21-385</td>
<td>Increased Profitability for Small Farms in Silicon Valley Through Year-Round Production of Baby Greens</td>
<td>$23,204</td>
<td>Sam Thorp Spade and Plow Organics LLC</td>
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<tr>
<td>FW21-386</td>
<td>Improving Soil Health with biochar and compost application in North Coast Vineyards</td>
<td>$24,583</td>
<td>Dr. Michael Sipiora Treasury Wine EStates</td>
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<tr>
<td>FW21-387</td>
<td>Using Flavonoid and Polyphenol Testing of Honey to Improve Consumer Education</td>
<td>$25,000</td>
<td>Alisha Taff Rock Front Ranch</td>
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<td>Project Number</td>
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<tr>
<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</td>
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<tr>
<td>FW20-365</td>
<td>Mitigating on-farm toxins using fungi: a case study on two farms.</td>
<td>$19,881</td>
<td>Christopher</td>
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<tr>
<td>FW19-346</td>
<td>Grazing of annual brassicas to extend grazing season in summer-dry pastures in Northern California</td>
<td>$19,109</td>
<td>Cody</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>
<td>$19,920</td>
<td>Alex</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</td>
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<td>FW18-042</td>
<td>Converting tree nut byproducts into gourmet mushrooms and mulches</td>
<td>$19,952</td>
<td>Charlie</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>
<td>$19,980</td>
<td>Michael</td>
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<td>FW17-054</td>
<td>Honeybee Regeneration Project</td>
<td>$19,851</td>
<td>Aidan</td>
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<tr>
<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>
<td>David</td>
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<tr>
<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>
<td>Jason</td>
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<tr>
<td>FW16-036</td>
<td>Improving Water Use Efficiency in Conventional and Organic Almonds through Data Driven Irrigation</td>
<td>$19,878</td>
<td>Pat</td>
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<tr>
<td>FW15-029</td>
<td>High Desert High Tunnels</td>
<td>$5,183</td>
<td>Laurie</td>
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<tr>
<td>FW14-024</td>
<td>Vines And Ovines: Benefits of Target Grazing to Sheep and Vineyard Industries</td>
<td>$14,991</td>
<td>Jaime</td>
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<tr>
<td>FW11-037</td>
<td>Use of Wood Ash as Soil Amendment on Annual Rangelands</td>
<td>$28,995</td>
<td>Mel</td>
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<td>FW10-037</td>
<td>Woolgathering on the Farm</td>
<td>$7,165</td>
<td>Sophie</td>
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<td>FW08-030</td>
<td>Creating and Marketing Value-Added Orchard Products</td>
<td>$15,000</td>
<td>Nicholas</td>
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<td>FW08-047</td>
<td>Sierra Nevada Small Farm Progress Days</td>
<td>$27,370</td>
<td>Dan</td>
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</table>

**Projects Include:**
- Adding value to grassfed cattle operations by restoring rangeland health with targeted grazing on California's Central Coast.
- Mitigating on-farm toxins using fungi: a case study on two farms.
- Grazing of annual brassicas to extend grazing season in summer-dry pastures in Northern California.
- Drill-seeding blue oak acorns: a new method for restoration in California’s rangelands.
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- Honeybee Regeneration Project.
- Sorrel Pesto: The Positive Implications of Sorrel as a Substitute for Basil in Pesto Production.
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- High Desert High Tunnels.
- Vines And Ovines: Benefits of Target Grazing to Sheep and Vineyard Industries.
- Use of Wood Ash as Soil Amendment on Annual Rangelands.
- Woolgathering on the Farm.
- Creating and Marketing Value-Added Orchard Products.
- Sierra Nevada Small Farm Progress Days.
| 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 Belly 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 |
| FW04-028   | Organic Vineyard/Orchard Weed and Grass Management Using Miniature Sheep | $7,472 | Deborah Walton  
Canvas Ranch |
| FW04-111   | Marketing Locally Grown | $10,000 | Mary Ann Vasconcellos |
| FW03-007   | Integrated Pest Management and Sustainable Grape Production in Sonoma County | $13,000 | Nick Frey  
Sonoma County Grape Growers Assn. |
<p>| FW03-009   | Unconventional Conversion: Cultivating Sustainability in Citrus and Avocado Orchards | $7,500 | Zachary Griffin |</p>
<table>
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<tr>
<th>Project Code</th>
<th>Project Title</th>
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<th>Institution</th>
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<tr>
<td>FW03-010</td>
<td>Increasing Adoption of Sustainable Practices in Central Coast Vineyards</td>
<td>$13,000</td>
<td>Kris Beal</td>
<td>Vineyard Team</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>
<td>Howe Creek Ranch</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>
<td>John Currey</td>
<td>CR Pigs</td>
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<td>FW03-105</td>
<td>Bay Area Agricultural Cooperative</td>
<td>$13,000</td>
<td>John Lagier</td>
<td>Lagier Ranches</td>
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<td>FW03-107</td>
<td>Marin Organics Cooperative Marketing Program</td>
<td>$13,500</td>
<td>Warren Weber</td>
<td>Star Route Farms</td>
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<td>FW03-318</td>
<td>Conservation of Groundwater Resources in the Mojave High Desert Region through Producer Education of Irrigation Management</td>
<td>$6,285</td>
<td>Grant Poole</td>
<td>University of California Cooperative Extension</td>
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<td>FW02-211</td>
<td>Marin Organic’s Cooperative Marketing Outreach</td>
<td>$9,191</td>
<td>Warren Weber</td>
<td>Star Route Farms</td>
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<td>FW02-213</td>
<td>Establishing a Market for Sustainable Agricultural Products in Sierra Nevada Foothill Counties</td>
<td>$12,900</td>
<td>Ed Rich</td>
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<td>FW01-089</td>
<td>Symphylans: A growing menace. A look into its detection, damage, and control in a small-scale Biointensive Community Supported Agriculture Project</td>
<td>$6,270</td>
<td>Michelle Vesser</td>
<td>Small Farm / Specialty Crops</td>
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<td>FW00-005</td>
<td>Production of Strawberry Plants using Sterile Soil Amendments</td>
<td>$5,000</td>
<td>Allen Albaugh</td>
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<td>FW00-008</td>
<td>Tracking Costs and Returns in a Transition to Grass-Based Dairying</td>
<td>$1,139</td>
<td>Dean Martin</td>
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<td>FW00-010</td>
<td>Soil Solarization for Weed and Disease Control in Specialty Crops</td>
<td>$4,975</td>
<td>Mike Smith</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 in the Sierra Foothills</td>
<td>$10,000</td>
<td>Brian Fitzpatrick</td>
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<td>FW00-080</td>
<td>Moving From Selling Through Intermediaries to Direct Marketing Using Cause Related Marketing Strategy</td>
<td>$4,447</td>
<td>Maria Ines Catalan</td>
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<td>FW00-210</td>
<td>Test Marketing Pasture Produced Artisan Cheeses</td>
<td>$7,910</td>
<td>Tim Pedrozo</td>
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<td>FW00-299</td>
<td>Good Humus Produce Farm to School Project</td>
<td>$5,300</td>
<td>Annie Main</td>
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<td>FW99-073</td>
<td>Converting Dairy Waste into More Usable Products through Vermiculture</td>
<td>$4,300</td>
<td>Charmaine Harris</td>
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</table>
FW99-108  Central Coast Vineyard Team  Positive Points System Evaluation and Education Program  $10,000  Dana Merrill

FW98-009  Soil Solarization as a Methyl Bromide Alternative in Strawberries  $4,000  Touxia Thauxaochay

FW98-012  Solarization for Small Farm "Specialty Crops"  $4,000  Mike Smith

FW98-072  Goats as a Source of Weed and Brush Control in Forest Plantations  $5,000  Allen Albaugh

FW97-011  Feasibility of Soil Solarization for Strawberry Production on the Central Coast of California  $5,000  Larry Galper

FW97-012  Individual Confinement Rearing vs. Pasture-Based Group Rearing of Dairy Calves  $3,248  Jim Wackerman

FW97-016  Vermicomposting Demonstration Project  $5,000  Dave Renner  Diamond Point Dairy

FW97-030  Pheromone Foggers for Pesticide Replacement  $5,000  Willis Thompson

FW96-053  Farming, Agriculture, and Resource Management for Sustainability (F.A.R.M.S.)  $5,000  Craig McNamara  Sierra Orchards

FW95-089  Monitoring Program for Biologically Integrated Orchard Systems (BIOS) in Walnuts  $5,000  Liza Lewis  Community Alliance with Family Farmers Foundation

GW21-224  Hopes of dry land: Managing soils to improve fruit yield and quality in dry farm tomatoes  $25,243  Dr. Timothy Bowles  University of California Berkeley  Yvonne Socolar  UC Berkeley

GW21-227  What is a Healthy Soil for Wine Grape Production? Assessing Soil Health Across California Vineyards  $30,000  Dr. Cristina Lazcano  University of California Davis  Dr. Mallika Nocco  University of California, Davis  Dr. Kerri Steenwerth  USDA/University of California Davis  Noelymar Gonzalez-Maldonado  University of California Davis

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 leaffooted bug, Leptoglossus zonatus, in California tree nut crops  $24,796  Dr. Houston Wilson  University of California, Riverside  Dr. Kent Duane  University of California, Berkeley  Rob Straser  University of California, Riverside
<table>
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<tr>
<th>Grant Number</th>
<th>Title</th>
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| GW20-213     | Linking Adaptive Rangeland Decision-Making and Vulnerability to Drought and Wildfire | $13,394        | Leslie Roche  
UC Davis  
Grace Woodmansee  
University of California, Davis, Department of Plant Sciences, UC Rangelands Lab  
Grace Woodmansee  
University of California, Davis, Department of Plant Sciences, UC Rangelands Lab |
| 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  
California State University East Bay |
| 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-generation 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 |

Larry Godfrey
University of California, Davis
Joanna Bloese
University of California, Davis

Compost-Induced Disease Suppressive Soils for Control of Verticillium Wilt of Strawberry

Tom Gordon
UC Davis
Margaret Lloyd
UC Davis

Best management practices that promote sustainable crop pollination: the role of crop rotations and tillage depth

Neal Williams
University of California, Davis
Katharina Ullmann
University of California, Davis

Ecosystem Services in Hedgerow Restorations: Pollination Function and Nesting Habitat

Dr. Claire Kremen
University of California, Berkeley
Hillary Sardinas
UC Berkeley

Pastured Poultry/Crop Systems and Their Effect on Food Safety, Farm Economy, and Soil Quality

Dr. Kathleen Hilimire
University of California, Santa Cruz
Stephen R. Gliessman
University of California

Facilitating Integrated Weed Management in California Rice: Predicting E. spp. and C. difformis emergence across heterogeneous growing environments

Dr. Chris van Kessel
University of California, Davis
Dr. Mark Lundy
University of California Cooperative Extension

Irrigation Alternatives for Sustainable Water Use of Processing Tomatoes

Louise Jackson
UC Davis
Felipe Barrios Masias
Board of Regents, NSHE, obo University of Nevada, Reno

Promoting Native Bumblebees in Agricultural systems for conservation and ecosystem service

Dr. Claire Kremen
University of California, Berkeley
Dr. Alexandra Harmon-Threatt
University of Illinois, Urbana-Champaign

Screening for non-host rotation crops of Colletotrichum acutatum for strawberry nurseries in California

W. Douglas Gubler
University of California, Davis
Joseph Jertberg
UC Davis Plant Pathology Department

Solarization and steam heat combined to control weeds in strawberry

Steve Fennimore
University of California, Davis
Celeste Gilbert
University of California, Davis

Sustainable Landscapes: Investigating the Landscape Scale Effects of Riparian Habitat on Natural Pest Control

Suzanne Langridge
University of California

Risk, Rate, and Impact of Medusahead Invasion of California Savannas

Dr. Emilio Laca
UC Davis
Corey Cherr
University of California, Davis

Managing Soil Food Webs for Enriched and Suppressive Soils: Effects of Cover Crop Diversity and Quality

Tianna Dupont
University of California at Davis

Linking C and N Cycling to Microbial Community Function in Cover Crop Systems

Angela Yin Yee Kong
University of California, Davis

Pest Control Services from Natural Habitat

Rebecca Chaplin
University of California, Berkeley
<table>
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<th>Project #</th>
<th>Project Title</th>
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<tr>
<td>OW20-360</td>
<td>Solarization and Biosolarization: Harnessing the Sun and Organic Matter to Control Weeds</td>
<td>$49,956</td>
<td>Martin Guerena National Center for Appropriate Technology</td>
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<td>OW19-339</td>
<td>Collaboration to demonstrate the potential use and value of electronic identification and DNA testing in the sheep industry</td>
<td>$50,000</td>
<td>Julie Finzel The Regents of the University of California, Agriculture and Natural Resources Dr.Alison Van Eenennaam UCANR</td>
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<tr>
<td>OW19-345</td>
<td>Effects of Occultation on Weed Pressure, Labor Costs, Product Quality, and Yield in Sustainable Vegetable Production in Northern California</td>
<td>$49,994</td>
<td>Dave Runsten Community Alliance with Family Farmers Kali Feiereisel Community Alliance With Family Farmers</td>
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<tr>
<td>OW19-349</td>
<td>Amador Rangeland Soil Health Research and Education Project</td>
<td>$49,139</td>
<td>Amanda Watson Amador Resource Conservation District</td>
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<td>OW19-351</td>
<td>A Collaborative Beneficial Insect and Pheromone Mating Disruption Demonstration Project</td>
<td>$50,000</td>
<td>Dr.Stephanie Bolton Lodi Winegrape Commission</td>
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<td>OW18-013</td>
<td>Early Weaning of Beef Calves: A Drought Management Strategy on Annual Rangelands</td>
<td>$41,184</td>
<td>Dan Macon University of California Cooperative Extension</td>
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<td>OW17-043</td>
<td>Beginning-farmer Research and Instruction on Growing in High Tunnels</td>
<td>$49,999</td>
<td>nathan harkleroad ALBA</td>
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<td>OW17-054</td>
<td>Advancing sustainable nitrogen management in strawberries through participatory research and education</td>
<td>$49,937</td>
<td>Sacha Lozano Resource Conservation District of Santa Cruz County</td>
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<td>OW16-013</td>
<td>Irrigated Pastureland Enhancement Program</td>
<td>$49,774</td>
<td>Leslie Roche UC Davis Dan Macon UC Cooperative Extension</td>
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<td>OW14-032</td>
<td>Selecting and Managing Vineyard Cover Crops to Reduce Consumption of Net Basin Water</td>
<td>$49,467</td>
<td>Fritz Westover Vineyard Team Kris Beal 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>
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| OW12-008 | Water Management in Sonoma County Grape Production | $49,200 | Karen Thomas  
             Sonoma County Winegrape Commission |
| OW11-318 | Pomo Tribal Supported Agriculture Program          | $49,963 | Rachel Whetstone  
             Hopland Band of Pomo Indians  
             Terri McCartney  
             Coordinator |

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

**$13,180,320**

For further information on projects, contact Western SARE at (435) 797-2257 or wsare@usu.edu.
Sustainable Agriculture Research and Education (SARE) is funded by USDA’s National Institute of Food and Agriculture (NIFA).