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 $308 million to more than 7,395 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.

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

$12,805,028 in total funding

210 grant projects (since 1988)

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

Total awards: **210 grants**

- 2 Enhanced State Grants
- 61 Farmer/Rancher
- 34 Graduate Student
- 13 On Farm Research/Partnership
- 35 Professional Development Program
- 63 Research and Education
- 2 Research to Grass Roots

Total funding: **$12,805,028**

- $49,734 Enhanced State Grants
- $763,088 Farmer/Rancher
- $695,716 Graduate Student
- $634,140 On Farm Research/Partnership
- $2,255,551 Professional Development Program
- $8,320,099 Research and Education
- $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  
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 $12,755,294 grants to support 200 projects, including but not limited to, 55 research and/or education projects, 35 professional development projects and 61 producer-led projects. California has also received additional SARE support through multi-state projects.

<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 University of California Davis Dr. Patrick Brown University of California Davis Dr. Amelie Gaudin University of California, Davis</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 University of California Berkeley Amanda Hodson University of California, Davis Dr. Paul Rogé MESA, Inc.</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 University of California Dr. Daniel Kluepfel USDA - ARS, Crops Pathology and Genetics Research Unit Dr. Steven Seybold USDA Forest Service</td>
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<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 California State University- Chico</td>
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<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 University of California</td>
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<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. Sara Kross California State University</td>
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<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 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 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 UC Davis</td>
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<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 University of California, Santa Cruz</td>
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</table>
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

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

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

SW04-058  Fresh, From Our Family to Yours: Direct Marketing Education for Producers $98,395  Molly Johnson  PlacerGROWN

SW04-121  Farmland Tenure: A Tool Kit $103,130  Steve Schwartz  California FarmLink

SW04-127  Educational Workshops on Organic Dairy Management $39,377  Ken Andersen  University of California Cooperative Extension

SW03-037  Confirmation of Riparian Friendly Grazing Project Results and Development of Achievable, Site Specific Reference Conditions for Grazed Riparian Areas $93,184  Dr.Kenneth Tate  University of California Davis

SW02-008  Evaluation of the Effects of Vineyard Floor Management Practices on Soil Microbiology $27,496  Richard Smith  University of California Cooperative Extension

SW02-020  Management of Vine Mealybugs in California’s San Joaquin Valley Through the Integration of Chemical and Biological Controls $117,286  Kent Daane  Division of Insect Biology, UC Berkeley Walter Bentley  UC Statewide IPM Project

SW02-034  Development and Dissemination of a Cowpea Cultivar for Cover Crops $43,686  Dr.Milt McGiffen, Jr.  University of California
Control of Western Tarnished Plant Bug (WTPB) Lygus hesperus Knight in Organic Strawberry Production Systems Using Trap Crops and Tractor-mounted Vacuums

Riparian Friendly Grazing Project

Transition to Organic Vegetable Production by Large-Scale Conventional Farmers

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

Rotations with Broccoli - A Sustainable Alternative to Soil Chemical Fumigants

Cropping Systems for Intensive Desert Vegetable Production

Decomposition and Nutrient Release Dynamics of Cover Crop Materials

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

Reducing Insecticide Use on Celery Through Low Input Pest Management Strategies

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

Tillage Practices for Improving Nitrogen Cycling and Soil Quality

Controlled Grazing on Foothill Rangelands

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

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

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

Farming in the 21st Century: A Documentary Photography Project
**SW94-017**  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

**SW94-022**  Western Region Community Supported Agriculture (CSA) Conference  
$23,991  
Jered Lawson  
CSA West

**SW94-037**  Sierra County Alternative Agriculture Project  
$12,000  
Kim Joos  
Sierra County Economic Council

**LW91-030**  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

**LWD91-001**  California Sustainable Agriculture Working Group  
$6,500  
Ronald E. Voss  
University of California, Vegetable Research & Information Center

**LW91-026**  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

**LW91-028**  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

**LW89-013**  Application of Low-Volume Water Systems to the Cultural and Biological Control of Root Diseases  
$325,160  
Milton N. Schroth  
University of California

**LW89-018**  A Comparison of Conventional, Low-Input and Organic Farming Systems: The Transition Phase and Long-Term Viability  
$600,000  
Steven Temple  
University of California

**LW89-020**  Cover Crop Information for Researchers and Farmers  
$90,000  
Robert Bugg  
University of California

**LW89-021**  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

**LW88-003**  Comparative Study of Established Organic and Conventional Tomato Production Systems in California  
$509,447  
Carol Shennan  
University of California, Santa Cruz

### RESEARCH TO GRASS ROOTS GRANTS

<table>
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<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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</thead>
</table>
| RGR20-006  | 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 |
| RGR20-010  | Potter Valley Tribe’s Native Mushroom Cultivation from Waste Byproduct Substrate for Food Sovereignty | $12,106      | Jade Swor  
Potter Valley Tribe  
Salvador Rosales, Sr.  
Potter Valley Tribe  
Salvador Rosales, Jr.  
Potter Valley Tribe  
Gregg Young  
Potter Valley Tribe |
<table>
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<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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</table>
| PDP20-009  | Filling the Gap - Exposing Agricultural Professionals to New and Innovative Small-Farm Tools                           | $74,982      | Jamie Fanous  
National Center for Appropriate Technology  
Linda Coffey  
National Center for Appropriate Technology |
| 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  
Andrew Seko  
CAMEO |
| 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 |
| 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 |
| EW13-022   | 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 |
| EW13-008   | High Residue Farming in the Irrigated Far West                                                                         | $26,400      | Andrew McGuire  
Washington State University Extension |
| 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 |
<table>
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<tr>
<th>Project Code</th>
<th>Project Title</th>
<th>Grant Amount</th>
<th>Principal Investigator</th>
<th>Institution</th>
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<tr>
<td>EW12-033</td>
<td>FARMING STRATEGIES FOR COPING WITH CLIMATE CHANGE</td>
<td>$19,000</td>
<td>Renata Brillinger</td>
<td>California Climate &amp; Agriculture Network</td>
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<tr>
<td>EW11-029</td>
<td>Cal Poly Professional Development Compost Training and Establishment of the Cal Poly Compost Project</td>
<td>$57,582</td>
<td>Hunter Francis</td>
<td>CAFES Center for Sustainability</td>
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<tr>
<td>EW10-004</td>
<td>Capacity Building Workshops: Developing Regional Agritourism Networks for Agricultural Sustainability and Education</td>
<td>$59,558</td>
<td>Penny Leff</td>
<td>UC Sustainable Agriculture Research and Education Program (UC SAREP)</td>
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<tr>
<td>EW10-005</td>
<td>Understanding the Climate Benefits of Sustainable Agriculture</td>
<td>$11,905</td>
<td>Jeanne Merrill</td>
<td>CA Climate &amp; Agriculture Network (CalCAN)</td>
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<tr>
<td>EW09-004</td>
<td>Ecology and Management of Grazing, An Online Course</td>
<td>$84,826</td>
<td>Melvin George</td>
<td>University of California</td>
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<tr>
<td>EW04-012</td>
<td>Adding Value to Grassfed Beef Niche Marketing Efforts</td>
<td>$60,000</td>
<td>Cynthia Daley</td>
<td>California State University, Chico</td>
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<tr>
<td>EW03-004</td>
<td>Field Course for Agricultural Professionals on the Common Goals and Strategies of USDA’s National organic Standards and Resource Conservation Programs</td>
<td>$60,000</td>
<td>Rex Doufour</td>
<td>National Center for Appropriate Technology (NCAT)</td>
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<tr>
<td>EW03-007</td>
<td>Extending Hedgerow Systems in California Agriculture</td>
<td>$60,000</td>
<td>Mark Cady</td>
<td>Community Alliance with Family Farmers</td>
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<tr>
<td>EW02-005</td>
<td>Organic Farming Principles, Practices, and Materials: Resources for Western Region Extension and USDA Professionals</td>
<td>$101,907</td>
<td>Dr. Sean Swezey</td>
<td>Center for Agroecology and Sustainable Food System</td>
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<tr>
<td>EW01-010</td>
<td>Training and Education Outreach to NRCS and University of California CES staff to Convey Animal Nutrition</td>
<td>$81,950</td>
<td>Thomas Wehri</td>
<td>CA Association Resource Conservation Districts</td>
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<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</td>
<td>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</td>
<td>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</td>
<td>SAREP</td>
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<tr>
<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</td>
<td>University of California Cooperative Extension</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</td>
<td>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</td>
<td>Com. Alliance w/ Family Farmers/BIOS Training Prop. for SARE</td>
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Note: The above table represents a selection of projects related to farming strategies for coping with climate change.
<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
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<th>Project Leaders</th>
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<tbody>
<tr>
<td>EW96-005</td>
<td>Multidisciplinary On-Site Training in Sustainable Agriculture Education</td>
<td>$97,432</td>
<td>Steven Temple</td>
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<td>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</td>
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<td>SAREP</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</td>
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<td>Center for Agroecology and Sustainable Food System</td>
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<td>EW94-003</td>
<td>Multidisciplinary On-Site Training in Sustainable Agriculture Education</td>
<td>$71,000</td>
<td>Steven Temple</td>
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<td>University of California</td>
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**FARMER/RANCHER GRANTS**

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<th>Project #</th>
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<tbody>
<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 Reikowski</td>
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<td>Willow Creek Land and Cattle, LLC</td>
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<td>FW20-365</td>
<td>Mitigating on-farm toxins using fungi: a case study on two farms.</td>
<td>$19,881</td>
<td>Christopher Tchudi</td>
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<td>TurkeyTail Farm</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>
<td>$19,109</td>
<td>Cody Wood</td>
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<td>Willamette Valley Lamb</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 Palmerlee</td>
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<td>Far View Ranch Inc.</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>Bob Adams</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 Long Chen</td>
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<td>Nature Prize LLC</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 Williams</td>
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<td>Diamond W Cattle Company</td>
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<td>FW17-054</td>
<td>Honeybee Regeneration Project</td>
<td>$19,851</td>
<td>Aidan Wing</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>
<td>David Ceaser</td>
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<td>Green Skies Vertical Farm</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>
<td>Jason Melvin</td>
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<td>Zabala Vineyards</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>P R Farms, Inc.</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>Locavore Farms</td>
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</table>
| FW14-024  | Vines And Ovines: Benefits of Target Grazing to Sheep and Vineyard Industries                  | $14,991 | Jaime Irwin  
Kaos Sheep Outfit                                                                                     |
| 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                                                                                         |
| FW07-324  | Management Challenges for Dairy Goat Sustainability                                             | $15,360 | Deborah Giraud  
University of California                                                                 |
| 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 |
| 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                                                                 |

FW stands for Farming Wonders.
Marketing Locally Grown $10,000 Mary Ann Vasconcellos

A pilot project for zero discharge farming $3,250 Alan Haight Riverhill Farm

Organic Vineyard/Orchard Weed and Grass Management Using Miniature Sheep $7,472 Deborah Walton Canvas Ranch

Increasing Adoption of Sustainable Practices in Central Coast Vineyards $13,000 Kris Beal Vineyard Team

Can Llamas Be an Effective Tool for Predator Control? $6,500 Jill Hackett Howe Creek Ranch

Pastured Pork: Economics of Intensive Grazing in the Western United States $6,550 John Currey CR Pigs

Bay Area Agricultural Cooperative $13,000 John Lagier Lagier Ranches

Marin Organics Cooperative Marketing Program $13,500 Warren Weber Star Route Farms

Conservation of Groundwater Resources in the Mojave High Desert Region through Producer Education of Irrigation Management $6,285 Grant Poole University of California Cooperative Extension

Integrated Pest Management and Sustainable Grape Production in Sonoma County $13,000 Nick Frey Sonoma County Grape Growers Assn.

Unconventional Conversion: Cultivating Sustainability in Citrus and Avocado Orchards $7,500 Zachary Griffin

Marin Organic’s Cooperative Marketing Outreach $9,191 Warren Weber Star Route Farms

Establishing a Market for Sustainable Agricultural Products in Sierra Nevada Foothill Counties $12,900 Ed Rich

Symphylans: A growing menace. A look into its detection, damage, and control in a small-scale Biointensive Community Supported Agriculture Project. $6,270 Michelle Vesser Small Farm / Specialty Crops

Moving From Selling Through Intermediaries to Direct Marketing Using Cause Related Marketing Strategy $4,447 Maria Ines Catalan

Test Marketing Pasture Produced Artisan Cheeses $7,910 Tim Pedrozo

Good Humus Produce Farm to School Project $5,300 Annie Main
<table>
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<th>Project #</th>
<th>Project Title</th>
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<th>Project Leaders</th>
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<tr>
<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>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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<td>FW99-108</td>
<td>Central Coast Vineyard Team Positive Points System Evaluation and Education Program</td>
<td>$10,000</td>
<td>Dana Merrill</td>
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<tr>
<td>FW98-009</td>
<td>Soil Solarization as a Methyl Bromide Alternative in Strawberries</td>
<td>$4,000</td>
<td>Touxia Thauxaochay</td>
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<tr>
<td>FW98-012</td>
<td>Solarization for Small Farm “Specialty Crops”</td>
<td>$4,000</td>
<td>Mike Smith</td>
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<td>FW98-072</td>
<td>Goats as a Source of Weed and Brush Control in Forest Plantations</td>
<td>$5,000</td>
<td>Allen Albaugh</td>
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<td>FW97-030</td>
<td>Pheromone Foggers for Pesticide Replacement</td>
<td>$5,000</td>
<td>Willis Thompson</td>
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<tr>
<td>FW97-011</td>
<td>Feasibility of Soil Solarization for Strawberry Production on the Central Coast of California</td>
<td>$5,000</td>
<td>Larry Galper</td>
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<td>FW97-012</td>
<td>Individual Confinement Rearing vs. Pasture-Based Group Rearing of Dairy Calves</td>
<td>$3,248</td>
<td>Jim Wackerman</td>
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<td>FW97-016</td>
<td>Vermicomposting Demonstration Project</td>
<td>$5,000</td>
<td>Dave Renner Diamond Point Dairy</td>
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<td>FW96-053</td>
<td>Farming, Agriculture, and Resource Management for Sustainability (F.A.R.M.S.)</td>
<td>$5,000</td>
<td>Craig McNamara Sierra Orchards</td>
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<tr>
<td>FW95-089</td>
<td>Monitoring Program for Biologically Integrated Orchard Systems (BIOS) in Walnuts</td>
<td>$5,000</td>
<td>Liza Lewis Community Alliance with Family Farmers Foundation</td>
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**GRADUATE STUDENT GRANTS**

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<th>Project #</th>
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<tr>
<td>GW20-203</td>
<td>Grazing for change: Connecting soil health and ranch viability using adaptive multi-paddock grazing</td>
<td>$24,867</td>
<td>Dr.Timothy Bowles University of California Berkeley Lynn Huntsinger, PhD University of California, Berkeley Paige Stanley University of California, Berkeley Paige Stanley University of California, Berkeley</td>
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<tr>
<td>ID</td>
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<td>Amount</td>
<td>Principal Investigators</td>
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<td>GW20-207</td>
<td>Cover crops to enhance control of leaffooted bug, Leptoglossus zonatus, in California tree nut crops</td>
<td>$24,796</td>
<td>Houston Wilson&lt;br&gt;University of California, Riverside&lt;br&gt;Dr. Kent Daane&lt;br&gt;University of California, Berkeley&lt;br&gt;Rob Straser&lt;br&gt;University of California, Riverside</td>
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<td>GW20-209</td>
<td>Testing efficacy of anaerobic soil disinfection (ASD) in managing bacterial wilt disease of Hawaiian ginger, turmeric, and tomato crops</td>
<td>$25,000</td>
<td>University of California, Davis&lt;br&gt;Sharon Motomura-Wages&lt;br&gt;University of Hawaii&lt;br&gt;Dr. Mohammad Arif&lt;br&gt;University of Hawaii&lt;br&gt;Jonathan Beutler&lt;br&gt;University of California, Davis&lt;br&gt;Dr. Jonathan Jacobs, Ph.D.&lt;br&gt;Ohio State University&lt;br&gt;Dr. Amisha Poret-Peterson, Ph.D.&lt;br&gt;USDA Agricultural Research Service&lt;br&gt;Jonathan Beutler&lt;br&gt;University of California, Davis</td>
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<td>GW20-213</td>
<td>Linking Adaptive Rangeland Decision-Making and Vulnerability to Drought and Wildfire</td>
<td>$13,394</td>
<td>Leslie Roche&lt;br&gt;UC Davis&lt;br&gt;Grace Woodmansee&lt;br&gt;University of California, Davis, Department of Plant Sciences, UC Rangelands Lab&lt;br&gt;Grace Woodmansee&lt;br&gt;University of California, Davis, Department of Plant Sciences, UC Rangelands Lab</td>
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<td>GW20-216</td>
<td>Network analysis of organic seed systems: a systems-level analysis for resilience</td>
<td>$24,997</td>
<td>University of California, Davis&lt;br&gt;Liza Wood&lt;br&gt;University of California, Davis&lt;br&gt;Jared Zystro&lt;br&gt;Organic Seed Alliance&lt;br&gt;Liza Wood&lt;br&gt;University of California, Davis</td>
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<td>GW19-191</td>
<td>Systems approaches to co-manage disease, water and soil health for sustainable processing tomato production in the Western region</td>
<td>$25,000</td>
<td>Dr. Cassandra Swett&lt;br&gt;UC Davis&lt;br&gt;Justine Beaulieu&lt;br&gt;UC Davis</td>
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<tr>
<td>GW19-193</td>
<td>Conventional vs. regenerative almond orchards, with regards to invertebrate biomass and biodiversity, soil health, food safety, and profitability</td>
<td>$25,000</td>
<td>Dr. Jonathan Lundgren, PhD&lt;br&gt;Ecdysis Foundation&lt;br&gt;Dr. Patty Oikawa&lt;br&gt;California State University East Bay&lt;br&gt;Dr. Erica Wildy&lt;br&gt;California State University East Bay&lt;br&gt;Thomas Fenster&lt;br&gt;California State University East Bay</td>
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<td>GW19-194</td>
<td>Sustainable orchard intensification: Cover crops and management intensity</td>
<td>$24,944</td>
<td>Bradley Hanson&lt;br&gt;University of California, Davis&lt;br&gt;Steven Haring&lt;br&gt;University of California, Davis</td>
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<td>GW19-200</td>
<td>Natural pest control in a working agricultural landscape: Investigating the impact of rodent control on beneficial hawks and owls</td>
<td>$24,997</td>
<td>Dr. Joshua Hull&lt;br&gt;UC Davis&lt;br&gt;Dr. Sara Kross&lt;br&gt;Columbia University&lt;br&gt;Breanna Martinico&lt;br&gt;UC Davis</td>
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<td>GW18-062</td>
<td>Development of New Selection Tools and Crop Varieties for Sustainable Agriculture</td>
<td>$24,443</td>
<td>Paul Gepts&lt;br&gt;University of California - Davis&lt;br&gt;Travis Parker&lt;br&gt;University of California - Davis</td>
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<td>GW18-020</td>
<td>New Ranchers, New Needs: Why are first-generation ranchers deciding against traditional climate adaptation strategies?</td>
<td>$24,982</td>
<td>Leslie Roche&lt;br&gt;UC Davis&lt;br&gt;Katherine Munden-Dixon&lt;br&gt;University of California - Davis</td>
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<td>GW18-041</td>
<td>Insect Discovery and Breeding as Tools for Sustainable Solutions to Organic Waste Management</td>
<td>$24,942</td>
<td>Dr. Christian Nansen&lt;br&gt;University of California, Davis&lt;br&gt;Trevor Fowles&lt;br&gt;University of California, Davis</td>
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<td>GW18-142</td>
<td>Cover Crop Systems for Almond Orchards: Exploring Benefits and Tradeoffs to Inform Management</td>
<td>$24,852</td>
<td>Dr. Amelie Gaudin&lt;br&gt;University of California, Davis&lt;br&gt;Cynthia Creze&lt;br&gt;University of California, Davis</td>
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<td>GW18-126</td>
<td>Increasing the sustainability of dairy cattle by providing genetic tools to reduce lameness, improving welfare and production</td>
<td>$23,623</td>
<td>Dr. Anita Oberbauer&lt;br&gt;University of California, Davis&lt;br&gt;Ellen Lai&lt;br&gt;University of California, Davis</td>
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<td>GW17-032</td>
<td>Management of Fusarium Wilt of Strawberry through Crop Rotation</td>
<td>$24,999</td>
<td>Dr. Thomas Gordon&lt;br&gt;UC Davis Dept. Plant Pathology&lt;br&gt;Peter Henry&lt;br&gt;University of California at Davis</td>
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<td>GW16-044</td>
<td>A Collaborative Approach to Integrated Pest Management of Tadpole Shrimp in California Rice Fields.</td>
<td>$24,928</td>
<td>Larry Godfrey&lt;br&gt;University of California, Davis&lt;br&gt;Joanna Bloese&lt;br&gt;University of California, Davis</td>
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<td>GW13-011</td>
<td>Compost-Induced Disease Suppressive Soils for Control of Verticillium Wilt of Strawberry</td>
<td>$24,992</td>
<td>Tom Gordon&lt;br&gt;UC Davis&lt;br&gt;Margaret Lloyd&lt;br&gt;UC Davis</td>
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<td>GW13-018</td>
<td>Best management practices that promote sustainable crop pollination: the role of crop rotations and tillage depth</td>
<td>$24,954</td>
<td>Neal Williams&lt;br&gt;University of California, Davis&lt;br&gt;Katharina Ullmann&lt;br&gt;University of California, Davis</td>
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<td>GW12-024</td>
<td>Ecosystem Services in Hedgerow Restorations: Pollination Function and Nesting Habitat</td>
<td>$17,882</td>
<td>Dr. Claire Kremen&lt;br&gt;University of California, Berkeley&lt;br&gt;Hillary Sardinas&lt;br&gt;UC Berkeley</td>
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<td>GW11-001</td>
<td>Pastured Poultry/Crop Systems and Their Effect on Food Safety, Farm Economy, and Soil Quality</td>
<td>$24,807</td>
<td>Dr. Kathleen Hilimire&lt;br&gt;University of California, Santa Cruz&lt;br&gt;Stephen R. Gliessman&lt;br&gt;University of California</td>
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<td>GW11-012</td>
<td>Facilitating Integrated Weed Management in California Rice: Predicting E. spp. and C. difformis emergence across heterogeneous growing environments</td>
<td>$17,120</td>
<td>Dr. Chris van Kessel&lt;br&gt;University of California, Davis&lt;br&gt;Dr. Mark Lundy&lt;br&gt;University of California Cooperative Extension</td>
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<tr>
<td>GW10-010</td>
<td>Irrigation Alternatives for Sustainable Water Use of Processing Tomatoes</td>
<td>$25,000</td>
<td>Louise Jackson&lt;br&gt;UC Davis&lt;br&gt;Felipe Barrios Masias&lt;br&gt;Board of Regents, NSHE, obo University of Nevada, Reno</td>
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<tr>
<td>GW09-018</td>
<td>Promoting Native Bumblebees in Agricultural systems for conservation and ecosystem service</td>
<td>$20,074</td>
<td>Dr. Claire Kremen&lt;br&gt;University of California, Berkeley&lt;br&gt;Dr. Alexandra Harmon-Threatt&lt;br&gt;University of Illinois, Urbana-Champaign</td>
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<td>GW08-018</td>
<td>Solarization and steam heat combined to control weeds in strawberry</td>
<td>$19,974</td>
<td>Steve Fennimore&lt;br&gt;University of California, Davis&lt;br&gt;Celeste Gilbert&lt;br&gt;University of California, Davis</td>
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<td>GW08-015</td>
<td>Screening for non-host rotation crops of Colletotrichum acutatum for strawberry nurseries in California</td>
<td>$19,535</td>
<td>W. Douglas Gubler&lt;br&gt;University of California, Davis&lt;br&gt;Joseph Jerberg&lt;br&gt;UC Davis Plant Pathology Department</td>
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<td>GW07-003</td>
<td>Sustainable Landscapes: Investigating the Landscape Scale Effects of Riparian Habitat on Natural Pest Control</td>
<td>$17,950</td>
<td>Suzanne Langridge&lt;br&gt;University of California</td>
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### ON FARM RESEARCH/PARTNERSHIP GRANTS

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<th>Project Leaders</th>
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| 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 |
| GW06-016  | 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 |
| GW06-007  | Linking C and N Cycling to Microbial Community Function in Cover Crop Systems | $9,995       | Angela Yin Yee Kong  
              University of California, Davis |
| GW06-004  | Pest Control Services from Natural Habitat                                   | $9,650       | Rebecca Chaplin  
              University of California, Berkeley |

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| OW20-360  | Solarization and Biosolarization: Harnessing the Sun and Organic Matter to Control Weeds | $49,956      | Linda Coffey  
              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  
              UC ANR |
| 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 |
Total funding from the USDA SARE program to California
$12,755,294

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).