UC ANR AND CDFA CLIMATE SMART AGRICULTURE PARTNERSHIP

INTRODUCTION

The UC ANR/CDFA Climate Smart Agriculture Partnership focuses on the adoption of climate smart agriculture practices targeted at soil health, manure management, and water efficiency across California. The team provides technical assistance, outreach, and education for farming and ranching practices including CDFA Incentive Programs:

Healthy Soils Program (HSP) Promotes conservation management practices that improve soil health, sequester carbon, and reduce greenhouse gas emissions on California's farmlands and ranchlands.

State Water Efficiency & Enhancement Program (SWEEP) Funds projects that save water, reduce greenhouse gas emissions, and improve irrigation efficiency.

Alternative Manure Management Program (AMMP) Encourages dairy and livestock producers to implement non-digester manure management practices to reduce greenhouse gas emissions.

WHAT WE DO

OUTREACH AND EDUCATION:

- Establish and maintain grower connections
- Develop and present flyers, case studies, blogs, newsletters, and fact sheets
- Lead trainings, field days, on-farm visits, and workshops
- Participate in and communicate research findings

TECHNICAL ASSISTANCE:

- Project design, application, implementation, monitoring, and verification support
- Translation services and computer access
- Tailored assistance to Socially Disadvantaged Farmers and Ranchers and Priority Populations

REGIONAL PROJECT SUCESSES

The projects included below showcase grower successes in reducing greenhouse gas emissions, saving water, building soil health, and attracting pollinators through the implementation of HSP, SWEEP, and AMMP projects in the ten regions of California served by the UC ANR Climate Smart Agriculture Program Team.

AMMP Project: Glenn County

A manure solid separator keeps solids out of the manure pond.

SWEEP Project: Yolo County

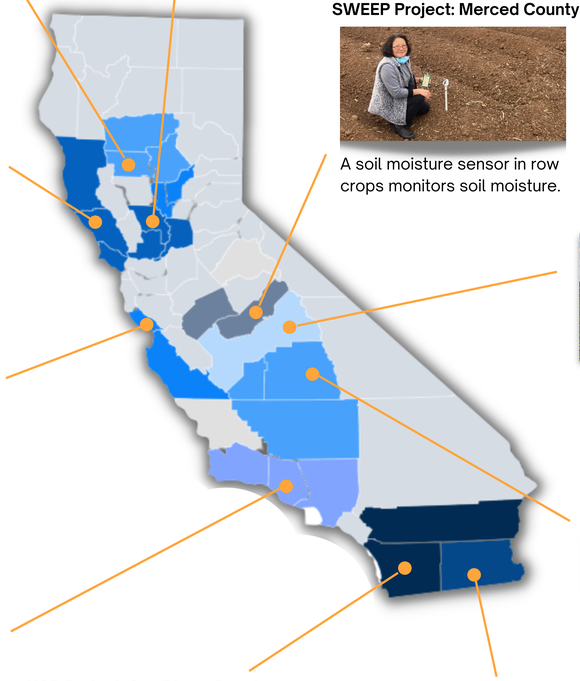
A flow meter measures the amount of water used in the irrigation system.

COUNTIES SERVED

Glenn	Sacramento	Yuba
Tehama	Yolo	Sutter
Butte	Solano	San Diego
Sonoma	Merced	Riverside
Marin	Madera	Ventura
Mendocino	Kern	Santa Barbara
Santa Cruz	Kings	Los Angeles
Imperial	Tulare	Fresno

AMMP Project: Sonoma County

A manure solid separator is used to make on-farm compost bedding .



SWEEP Project: Merced County

A soil moisture sensor in row crops monitors soil moisture.

HSP Project: Fresno County

A cover crop in an organic raisin vineyard adds nitrogen to the soil.

SWEEP Project: Santa Cruz County

An electronic weather station provides real-time data on irrigation needs.

SWEEP Project: Kern County

Mats were installed in a citrus orchard to reduce evaporation.

HSP Project: Ventura County

Straw mulch is added to fields of vegetable crops to retain moisture and prevent erosion.

HSP Project: San Diego County

Native plants are established as hedgerows to attract pollinator species.

SWEEP Project: Imperial County

Solar panels are installed to provide renewable energy for irrigation pumps.

PROGRAM IMPACT

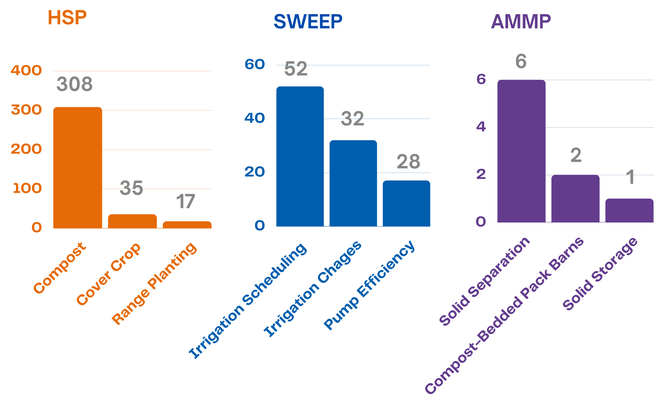
The UC ANR Climate Smart Agriculture Program provides assistance to growers to receive funding and implement carbon sequestration, water efficiency, and methane reduction projects. Since 2019, these efforts have contributed to the following impacts:

420 Projects Awarded
[HSP, SWEEP, & AMMP]
$35.9 million awarded

102,500 Metric tons of CO_2e reduced annually → **22,000** Equivalent of cars off the road

2,500 Acre-ft of water saved annually → **1,250** Equivalent of Olympic-sized swimming pools

Common Practices Funded



"When producers have support from UCCE offices that they already know and trust; they are more willing to implement new practices. With help from UC, soil health practices are becoming much more widely adopted."

Shannon Douglas, Glenn County HSP Awardee

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Agriculture and Natural Resources

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CALIFORNIA STRATEGIC GROWTH COUNCIL

CALIFORNIA CLIMATE INVESTMENTS
Cap and Trade Dollars at Work