

Navigating the State Water Efficiency (SWEEP) and Healthy Soils (HSP) Grant Programs

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Overview

What are CDFA's HSP and SWEEP grant programs?

Quick facts about HSP and SWEEP programs

Program eligibility

Program exclusions

Examples of HSP and SWEEP funded practices

Grant application checklist

Supporting documents needed

Technical assistance providers

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What is CDFA's Healthy Soils Incentive Program?

The **Healthy Soils Incentive Program** provides financial incentives to California growers and ranchers to implement agricultural management practices that sequester carbon, reduce atmospheric GHGs and improve soil health.

2021-2022: \$67.5 million in funding

2022-2023: \$160 million in funding



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Quick HSP Incentives Facts

- **When will the grant open?**

The grant opened on November 1, 2021 and applications are due by February 25, 2022.

- **What's the max amount of funds I can apply for?**

You can apply for up to \$100,000

- **When can I start my project?**

The earliest you can start is after the grant agreement with CDFA has been finalized and before December 31, 2022

- **How long will I have to complete my project?**

The grant is three years long.



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HSP Program Eligibility

- California farmers, ranchers, and Federal and California Recognized Native American Indian Tribes
- Projects must be located on California agricultural operations
- Applicant must have control of the land for the duration of the grant:
 - Letter of agreement from landowner for leased land is required
- Awards are limited to one per agricultural operation using a unique tax identification number per round of funding
- Implement at least one HSP Agricultural Management Practice on land **where it was not implemented in the last year.**

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HSP Program Exclusions

- Grant funds cannot be used to implement practices other than those listed in the HSP Request for Grant Applications.
- Grant funds cannot be used to fund APNs with existing and ongoing implementation of any HSP agricultural management practices.
- Fields that have previously received HSP Incentives or Demonstration awards for a particular practice are not eligible to receive additional funding for the same practice.
 - New fields within a previously funded APN, or new practices to be implemented on previously funded fields are eligible.
- Compost Application Practices cannot be implemented on APNs where soil organic matter content is greater than 20%, which is determined by the CDFA RePlan tool.
- Grant funds cannot be used for projects that use potted plants or other plant growth media.

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Examples of Practices HSP Incentives will Fund - Cropland Practices

- Cover Crop
- Compost Application
- Mulching
- Reduced or No-Till
- Conservation Crop Rotation
- Hedgerow planting
- https://www.cdfa.ca.gov/oefi/healthysoils/docs/2021_HSP_Incentives_RGA.pdf



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Compost Application Requirements

If compost is purchased:

- Compost must be purchased from a permitted facility
- STA (US Composting Council's Seal of Testing Assurance Program) or CDFA-OIM (Organic Input Material) program is recommended. These facilities can be found here: <https://www2.calrecycle.ca.gov/SolidWaste/Site/Search>
- A report of laboratory analysis on compost C:N ratio is required.



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Compost Application Requirements

If compost is produced on-farm:

- Plant and animal material must be composted through the processes listed below and a farm log must be maintained to document the process.
 - In-vessel or Static Aerated Pile System
 - Windrow Composting
- C:N ratio of compost must be verified through laboratory testing before application.
- Compost used in this practice must be produced at the agricultural operation where the project is located.
- Cannot be vermicompost



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Compost Application Requirements

Agricultural System	Compost Type	Tons/Acre
Cropland	Higher N (C:N \leq 11)	3-5
	Lower N (C:N $>$ 11)	6-8
Orchard/Vineyard	Higher N (C:N \leq 11)	2-4
	Lower N (C:N $>$ 11)	6-8
Grazing Land	Lower N (C:N $>$ 11)	6-8

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HSP Grant Application Checklist

What you will need to apply:

- List of practices you wish to apply for



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HSP Grant Application Checklist

What information you will need to start the application:

- Name of applicant
- Business Name (as shown on your income tax return)
- Last four of social or EIN
- Total size of agricultural operation
- Mailing address
- Project address (if different than mailing address)
- APN(s)
- Crop history for the past three years
- Management practices for the past three years
- Proposed plan of crops during the next three years
- Will the project take place on leased land?
 - Yes, landowner permission letter

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Supporting Documents

- Project Design through CDFA’s RePlan Tool
- GHG calculations through CDFA’s HSP Comet-Planner Tool
- Project Work Plan

2021 HEALTHY SOILS PROGRAM GRANT APPLICATION NUMBER:

CDFA HSP RePlan Report

Prepared 12/24/2021 using CDFA HSP RePlan Tool (<https://replan-tool.org/cdfa/incentives/?s=1aRfYCSQ1KPPF2QikA4>)



Office of Environmental Farming and Innovation
California Department of Food and Agriculture
1220 N Street
Sacramento, CA 95814

COMET-Planner

Project Name:
State: CA
County: Tulare
Date Created: 12/24/2021 7:29:42 AM

Approximate Carbon Sequestration and Greenhouse Gas Emission Reductions Practices*

NRCS Conservation Practices	Enter Unit Value (acres or feet)	Carbon Dioxide	Nitrous Oxide	Methane
[Info] Tulare, CA Compost Application (Interim CIP# 800) - Compost (CIN = 11) application to Application to Orchards or Vineyards, Purchased from a certified composting facility - 6 tons/acre	105.04 Acre(s)	480	-10	1
Total		480	-10	1

*Negative values indicate a loss of carbon or increased emissions of greenhouse gases
**Values were not estimated due to limited data on reductions of greenhouse gas emissions from this practice
***Final payment may be different than estimated payment, pending application review and approval

For more information on how these estimates were generated, please visit www.comet-planner.com.

2021 CDFA HSP INCENTIVES WORK PLAN TEMPLATE

Fill in information for practices to be implemented in your project.
Note: It is required by the HSP that a recipient must take at least one matter content each project year prior to practice implementation. (Content below in blue font are examples and must be changed to your project).

Application ID	Project Year 1	
	Start date in executed grant agreement - June 30, 2023	
Project Year	Practice Implementation Time Period	Practices to Be Implemented (Input practice below that matches timeline you plan to implement. Multiple practices can be entered in the same period.)
Year One	Prior to practice implementation	Take soil samples from APN(s) /field(s) and send to a CDFA recommended soil analysis laboratory to test soil organic matter content before starting all practices.
	Period 1	1. Cover crop 2. Compost application, $C:N > 11, 8$ tons/Acre
	Period 2	
	Period 3	

HSP Practices Funded in 2020

- Compost application
- Mulching
- Cover crop
- Hedgerow planting
- Windbreak/Shelterbelt Establishment
- https://www.cdfa.ca.gov/OEFI/healthsoils/docs/2020_HSP_Incentives_Projects_Selected_for_Awards.pdf

Technical Assistance: Free one-on-one Grant Application Assistance to Farmers

UC ANR/CDFA Climate Smart Agriculture Partnership Contacts

To learn more about climate-smart agriculture in your area, or if you need assistance with the CDFA incentive programs, please contact your nearest specialist:

County	Contact	Email	Phone
Sonoma	TBA	TBA	TBA
Merced	Caddie Bergren	cmbergren@ucanr.edu	(209) 385-7403
Glenn	TBA	TBA	TBA
Yolo, Solano & Sacramento	TBA	TBA	TBA
Santa Cruz	Valerie Perez	valperez@ucanr.edu	(831) 763-8028

2021 HSP Incentives Program Technical Assistance Providers



Resource Conservation District of Santa Cruz County

820 Bay Ave, Suite 136, Capitola, CA 95010
 Sacha Lozano, slozano@rcdsantacruz.org, 831-224-0293
 Service Area: Santa Cruz and northern Monterey Counties, focusing on the Pajaro Valley Basin and Lastomas area.

San Joaquin Farm Bureau Federation

3290 N Ad Air Rd., Stockton, CA 95215
 Bruce Blodgett, director@fb.org, (209) 931-4931
 Service Area: San Joaquin County; open to assist other farmers in the surrounding counties, as needed.

San Mateo Resource Conservation District

80 Stone Pine Road, Suite 100, Half Moon Bay, CA 94019
 Adria Arko, adria@sanmateorcd.org
 Doug Millar, doug@sanmateorcd.org
 Kasey Butler, kasey@sanmateorcd.org
 650-712-7765 Ext. 105
 Service Area: San Mateo County

Solana Center for Environmental Innovation

137 N El Camino Real, Encinitas, CA 92024
 Diane Hazard, diane@solanacenter.org, (760)-436-7986 Ext. 704
 Service Area: San Diego County; open to help farmers in neighboring counties including Imperial, Riverside, and Orange

The Regents of the University of California

Office of Contracts and Grants 2801 Second Street, Davis, CA 95618
 Apama Gouzo, agouzo@ucanr.edu, (408) 262-3127
 Service Area: Santa Clara and San Benito Counties

<https://ciwr.ucanr.edu/Programs/ClimateSmartAg/TechnicalAssistanceProviders/>
https://www.cdfa.ca.gov/oefi/healthsoils/docs/2021_HSP_Incentives_TAPs.pdf

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What is CDFA's State Water Efficiency and Enhancement Program

- A competitive grant application administered by the California Department of Food and Agriculture (CDFA)
- **2021-2022: \$43 million in funding**
- **2022-2023: \$100 million in funding**
- Purpose is to provide financial incentives for California agricultural operations **to invest in irrigation systems that save water and reduce greenhouse gas (GHG) emissions.**



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Quick SWEEP Facts

- **First come, first served grant**
- **Start date to be announced**
- How much money can I apply for?
 - Project grant amounts cannot exceed \$200,000.
 - Lifetime maximum of \$600,000 per applicant.
- How long will I have to complete my project?
 - The project duration is 24 months or two years.



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Types of Projects SWEEP will Fund

- Improved irrigation water management
- Soil, weather, plant sensors
- Micro-irrigation
- Pump replacement or retrofit
- Fuel conversion – Including renewable energy installations
- Variable frequency drives
- Other projects that combine water savings and GHG reductions



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Types of Projects that are NOT Allowed

- Expand existing agricultural operations
- Install new groundwater wells or increase well depth
- Test new technology or perform research
- Medical and recreational cannabis crops are excluded from eligibility
- Academic university research institutions and state governmental organizations are not eligible



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Glenn	TBA	TBA	TBA
Yolo, Solano & Sacramento	TBA	TBA	TBA
Santa Cruz	Valerie Perez	valperez@ucanr.edu	(831) 763-8028



2021 State Water Efficiency and Enhancement Program (SWEEP) Technical Assistance Providers

Statewide

San Joaquin Farm Bureau Federation

3290 N Ad Art Rd
Stockton, CA 95215
Bruce Blodgett, director@sjfb.org, (209) 931-4931

Service Area: San Joaquin County; open to assist other farmers in the surrounding counties, as needed.

University of California, Agriculture and Natural Resources

UC Davis
Davis, CA 95616
Khaled Ball, kball@ucanr.edu, (760) 554-1146

Service Area: Del Norte, Siskiyou, Modoc, Humboldt, Trinity, Shasta, Lassen, Tehama, Plumas, Mendocino, Glenn, Butte, Lake, Colusa, Sutter, Nevada, Yuba, Sierra, Yolo, Placer, El Dorado. With more emphasis on the counties that are not served by ANR Climate Smart Community Education Specialists.

<https://ciwr.ucanr.edu/Programs/ClimateSmartAg/TechnicalAssistanceProviders/>

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SWEEP Grant Application Checklist

What you will need to apply:

- Get quotes for items needed for the project, itemized with labor included
- Get a pump efficiency test for all the pumps that will be affected by the project (Note: if you've had a pump test done in past year that will work)
- Get 12 months of energy use data for pumps (e.g. PG&E bills)

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SWEEP Grant Application Checklist

What information you will need to start the application:

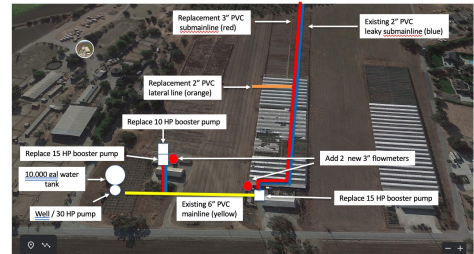
- | | |
|---|--|
| ▪ Name of applicant | ▪ Project APN(s) |
| ▪ Business name (as shown on your income tax return) | ▪ Crops and acreage for each |
| ▪ Last four of social or EIN | ▪ Current irrigation practice info |
| ▪ Total acreage | ▪ How many irrigation pumps do you have on your operation? |
| ▪ Mailing address | ▪ Do you share APN with your neighbor? If yes, are they interested in applying? You may only submit 1 application per APN. |
| ▪ Project address (if different than mailing address) | |

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Supporting Documents

- Pump test documents
- SWEEP Budget Worksheet
- Irrigation water savings assessment tool
- GHG calculator tool
- Energy use documents

ENERGY STATEMENT		Account No:	0358769696-5
www.pge.com/MyEnergy		Statement Date:	01/14/2021
		Due Date:	02/01/2021
Details of PG&E Electric Delivery Charges		Service Information	
12/09/2020 - 01/07/2021 (31 billing days)		Meter #	1209440277
Service Fee: 1.18 CENTS/KWH		Total Usage	1,063,203,620 kWh
Service Agreement ID: 8037502315		Renewal	N
Rate Schedule: AG01: Ag/Or MW Low Use		Rotating Outage Block	50
12/09/2020 - 12/31/2020			
Customer Charge	24 days @ \$0.6895	\$16.53	
Demand Charge ¹			
Max Demand	12.912000 kW @ \$0.0000	\$0.14	
Energy Charges			
Peak	100.692000 kWh @ \$0.22115	\$22.45	
Off-peak	678.207000 kWh @ \$0.19493	\$131.94	
Generation Credit		-\$8.33	
Power Charge Reference Adjustment		-\$4.52	
Franchise Fee Surcharge		-\$0.49	
01/01/2021 - 01/07/2021			
Customer Charge	7 days @ \$0.6895	\$4.82	
Demand Charge ¹			
Max Demand	13.095000 kW @ \$0.73000	\$9.57	
Energy Charges			
Peak	59.823000 kWh @ \$0.22152	\$13.29	
Off-peak	191.501000 kWh @ \$0.19233	\$36.89	
Generation Credit		-\$9.54	
Power Charge Reference Adjustment		-\$9.87	
Franchise Fee Surcharge		-\$0.11	
Total PG&E Electric Delivery Charges		\$258.89	
<small>¹ Demand charges are prorated for the number of days in each rate period.</small>			
<small>2020 Unrated Power Charge Reference Adjustment</small>			



- Project Description:**
1. Replace old leaky irrigation submain line with 3" PVC line
 2. Replace old leaky irrigation lateral line with 2" PVC line
 3. Replace one 10 HP and two 15 HP booster pumps
 4. Add two 3-inch flow meters
 5. Replace sprinkler heads
 6. Replace injector

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SWEEP Practices Funded in 2019

- Solar system and soil moisture sensors
- New electric pump, larger pipe to increase water flow and decrease pumping time, new variable frequency drive, sand media filter tank to the current filtration system, flow meter, soil moisture sensors
- Replace existing well pump, old leaky irrigation pipes, and sprinkler heads
- Low pressure drip irrigation system, a new pump, flow meter, soil moisture sensors
- Convert flood irrigated vineyards to low pressure micro-sprinkler irrigation for almond production
- <https://www.cdfa.ca.gov/oefi/sweep/docs/2019-SWEEP-ProjectsSelected-for-Award.pdf>

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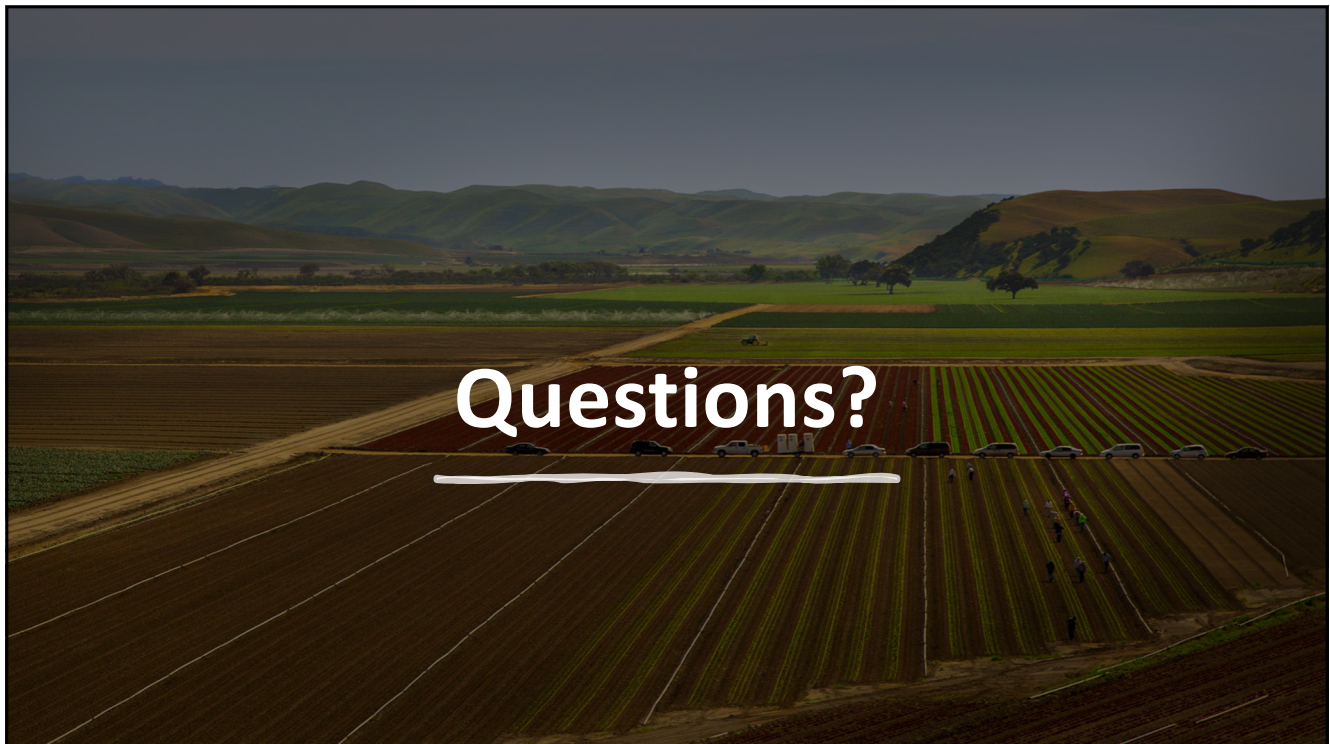
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