

**Welcome to...**

**GLENN COUNTY PARTNERS  
BRING YOU PROGRAMS 101  
FOR FARMERS & RANCHERS**

**Friday, February 16, 2024**

**9:00-9:30 am - Coffee & A Little Breakfast**

**9:30-10:30 am - 10 MIN Presentations by Each Partner**

**10:30-11:30 am - Open House, One-On-Ones**



**GLENN COUNTY**  
RESOURCE CONSERVATION DISTRICT



CALIFORNIA DEPARTMENT OF  
FOOD & AGRICULTURE



Cap and Trade  
Dollars at Work



University of California  
Agriculture and Natural Resources  
Glenn County Cooperative Extension



**SPONSORS**

**+ Glenn County Climate  
Smart Ag Committee**

# Contact Information

**PLEASE RETURN TO GLENN COUNTY RCD STAFF AT THE END**



Name \_\_\_\_\_

Name of Farm / Ranch \_\_\_\_\_

Telephone \_\_\_\_\_  Check [Here](#), if text messages are acceptable.

Email \_\_\_\_\_

**Location of Project**

>> Address: \_\_\_\_\_

>> City: \_\_\_\_\_

>> Zip Code: \_\_\_\_\_

>> County: \_\_\_\_\_

Estimate of Acres: \_\_\_\_\_

Crop(s) Type \_\_\_\_\_

**Additional Questions or Comments:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# Quick Overview

OPEN & WELCOME

**Kandi Manhart, Executive Officer, Glenn County Resource Conservation District**

County Department of Agriculture, Air Pollution Control District

Carl Moyer and FARMER Programs

**Allyson Smith, Environmental Program Manager**

**Glenn County Air Pollution Control District**

NRCS Farm Bill Programs

**Kristin Guy, District Conservationist, USDA Natural Resources Conservation Service**

Farm Loan Programs

**Elaine Wright, Farm Loan Specialist, USDA Farm Service Agency**

CDFA Healthy Soils Program

**Kellie Wilson-Burt, Program Specialist, Glenn County Resource Conservation District**

Mobile Irrigation Lab

**Kevin Greer, Irrigation Lab Project Manager, Resource Conservation District of Tehama County**

CDFA State Water Efficiency & Enhancement Program

**Lizzeth Mendoza, Community Education Specialist, UCCE Extension-Glenn County**

One-on-Ones, THANK YOU for attending!



# Carl Moyer & FARMER Grant Programs 2024

Glenn County Air Pollution Control District



# Available Grant Programs for 2024

## Voluntary Cost Share Program

- Carl Moyer Year 26 (2024)
  - Application Period: January 1st- March 29
  - \$175,000 awarded this year
- FARMER 23-24
  - Application Period: July 1- September 1
  - \$500,000 awarded this year



### TYPICAL FUNDING

\$175,000

EACH GRANT AWARDS

~50% OR UP TO

\$50,000 PER PROJECT

4-6 PROJECTS A YEAR



### REPLACEMENT CATEGORIES

- TRACTORS (ORCHARD)
- HARVESTERS
- EXCAVATORS
- STATIONARY DIESEL PUMPS
- SPRAYERS
- DIESEL AG TRUCKS (SEMI)
- AND IN COMPLIANCE NON-AG DIESEL EQUIPMENT

# Moyer



## FUNDING IS VARIABLE

\$500,000 (2024)

## EACH GRANT AWARDS

~50% OR UP TO \$50,000  
PER PROJECT

20-40 PROJECTS



## REPLACEMENT CATEGORIES

- TRACTORS (ORCHARD)
- HARVESTERS
- EXCAVATORS
- STATIONARY DIESEL PUMPS
- SPRAYERS
- DIESEL AG TRUCKS (SEMI)
- ZERO-EMISSION UTVS

# Farmer

Funding  
Agricultural  
Replacement  
Measures for  
Emissions  
Reductions

# What's the difference?

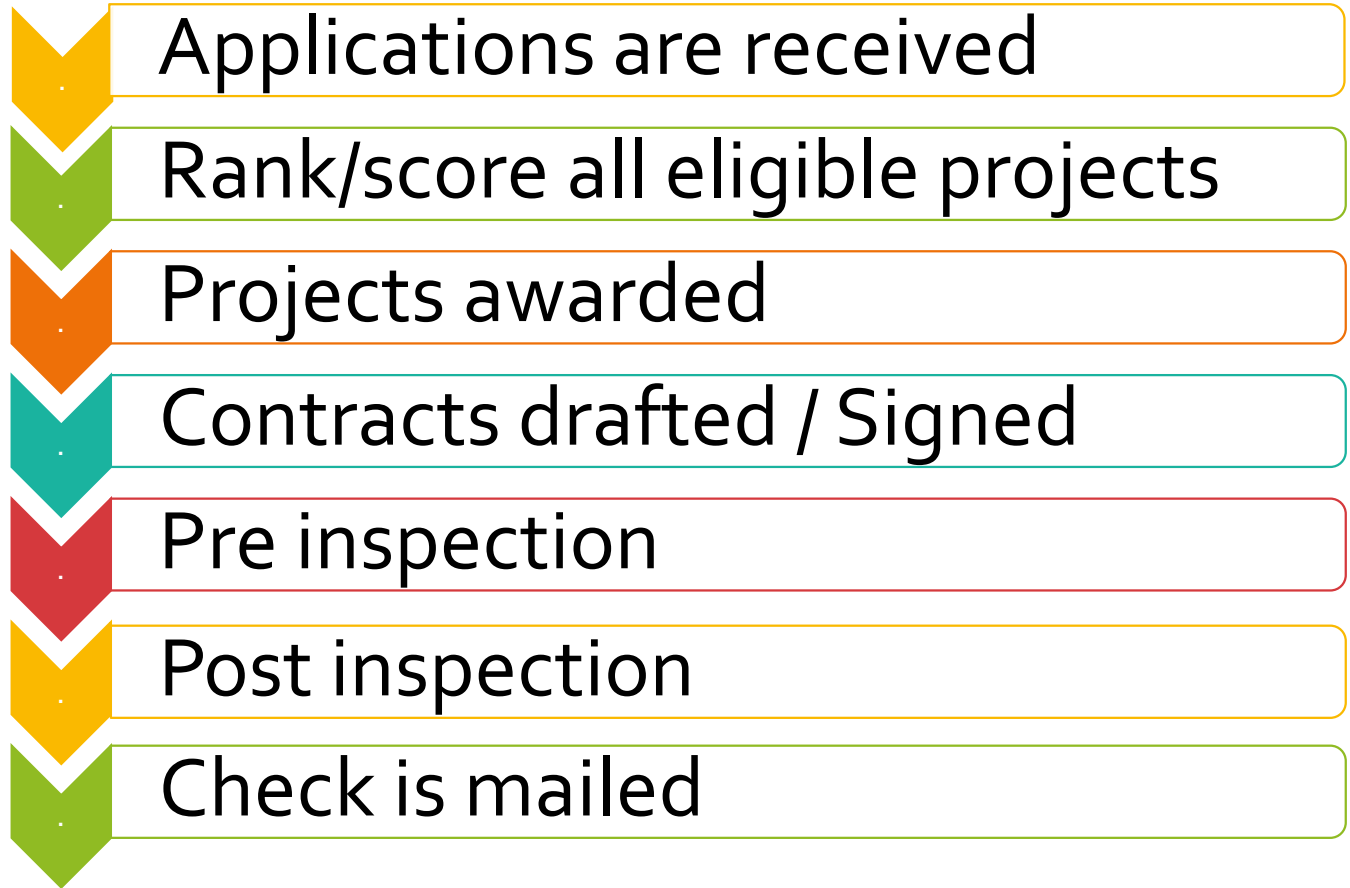
## Carl Moyer

- Assembly Bill (AB) 1571
- 26<sup>th</sup> year of funding
- Carl Moyer Guidelines
- Application period January-March
- More eligible equipment categories

## FARMER

- Assembly Bill (AB) 134 and AB 109
- 6th year of Funding
- Carl Moyer and Farmer Guidelines
- Application period July-September
- Must meet definition of **agricultural use**

Grant  
Processes  
is the  
same  
for  
both  
programs



# Moyer Application

Due By: **March 29<sup>th</sup>, 2024**

Due By: **March 29<sup>th</sup>, 2024**

Due By: **March 29<sup>th</sup>, 2024**

## Glenn County Air Pollution Control District

### Carl Moyer Memorial Air Quality Standards Attainment EQUIPMENT REPLACEMENT APPLICATION

Please complete **all applicable information** as accurately as possible. Local engine/motor distributors may be able to provide required information about the new engine/motor/equipment. Applicants will be notified of incomplete applications and given a deadline to make corrections, after which the application may be dropped.

**An Itemized Estimate Of New Equipment And Installation From The Dealership Must Be Included. Applications Without a Dealership Estimate Will Be Deemed Incomplete.**

Please mark one project type:

- Ag. Pump Diesel   
  Ag. Pump Electrification   
  Off-Road Equipment (Non-Ag)  
 Off-Road Equipment (Ag)   
  Other: \_\_\_\_\_

| APPLICANT INFORMATION   |                                       |
|---|---------------------------------------|
| Farm or Business Name:  |                                       |
| Farm Type:  |                                       |
| Project Name:   |                                       |
| Mailing Address:  |                                       |
| City:   | State:                      Zip Code: |
| Contact Name:   |                                       |
| Phone Number: (    )                      Cell Number: (    )   |                                       |
| E-Mail Address:   |                                       |
| Street Address or Lat/Long of Equipment ( <b>Draw or Attach Map On Page 4</b> ):  |                                       |
| Equipment Owner Name (If Different):  |                                       |
| If Different, Equipment Owner Phone Number:   |                                       |
| Farm Size (Mark One, if Applicable): <input type="checkbox"/> <100 Acres or <input type="checkbox"/> 100 Acres or Greater |                                       |
| Would This Equipment Have Been Replaced Without This Grant? <input type="checkbox"/> Y / <input type="checkbox"/> N       |                                       |

| INFORMATION ABOUT <u>OLD</u> ENGINE REPLACEMENT  |
|--|
| Equipment Make and Model:  |
| Engine Tier:   |
| Equipment Model Year:  |
| Engine Serial Number:  |
| Manufacturer's Maximum Rated Brake Horsepower:   |
| Fuel Type:   |
| Estimated Annual Hours of Operation:   |
| Percent Operation in Glenn County:   |
| Other Counties of Operation:   |
| Is this equipment currently in operating condition: <input type="checkbox"/> Yes / <input type="checkbox"/> No |

| INFORMATION ABOUT THE <u>NEW</u> ENGINE REPLACEMENT                  |
|--|
| Equipment Make and Model:  |
| Engine Tier:   |
| Equipment Model Year:  |
| Manufacturer's Maximum Rated Brake Horsepower:                       |
| Fuel Type:   |
| Estimated Annual Hours of Operation:                                 |
| Cost of New Engine or Replacement (Attach estimate from dealership): |

## ADDITIONAL FUNDING DISCLOSURE

Have any engines, vehicles, or motors listed in this application been awarded funding from another private and or public/government agency or are any being considered for funding?

- Yes  
 No

If "Yes", complete the following four lines as well as the complete application:  
 Agency Applied to \_\_\_\_\_  
 Date/Number of Agency Solicitation \_\_\_\_\_  
 Funding Amount Requested or Received \_\_\_\_\_  
 Status \_\_\_\_\_

**I hereby certify that all information provided in this application is true and correct to the best of my knowledge. By signing this application, I hereby certify that this equipment is in compliance with all applicable local, state, and federal regulations and that I am not aware of any outstanding or pending enforcement actions. I certify that this project will conform to the 2017 Carl Moyer Program Guidelines, District Policies and Procedures, and any advisories or mailouts put forth by the ARB. I understand that the completion of this application is not a guarantee of funds, and that the District does not offer retroactive funding for equipment that has already been purchased before approval by the District.**

|                                    |        |
|------------------------------------|--------|
| Printed Name of Responsible Party: | Title: |
| Signature of Responsible Party:    | Date:  |

## THIRD PARTY CERTIFICATION

**I have completed the application, in whole or in part, on behalf of the applicant.**

|                                |                                   |
|--------------------------------|-----------------------------------|
| Printed Name of Third Party:   | Title:                            |
| Signature of Third Party:      | Date:                             |
| Third Party Certification Fee: | Source of Funding to Third Party: |

# Equipment Destruction

## Minimum Requirements

- 3" **irregular** hole from the seam between the oil pan and engine block
- A notch or cut through the frame that prevents use under load (If equipment has a frame)
- Rendered inoperable and unreparable



## Destruction Methods

- Cutting (torch, cutting wheel)
- Hole Punch (breaker bar, sledge, punch, drill)
- Crushing (Scrapyard, or DIY)
- Welding (Welding of Crankshaft or Pistons)



# Frequently Asked Questions

## **Can I submit multiple pieces of equipment?**

Yes, there is no limit on the number of applications that can be submitted



## **Can I submit to both programs?**

Yes, however, we can only fund one project/ per entity/ per program/ per year.

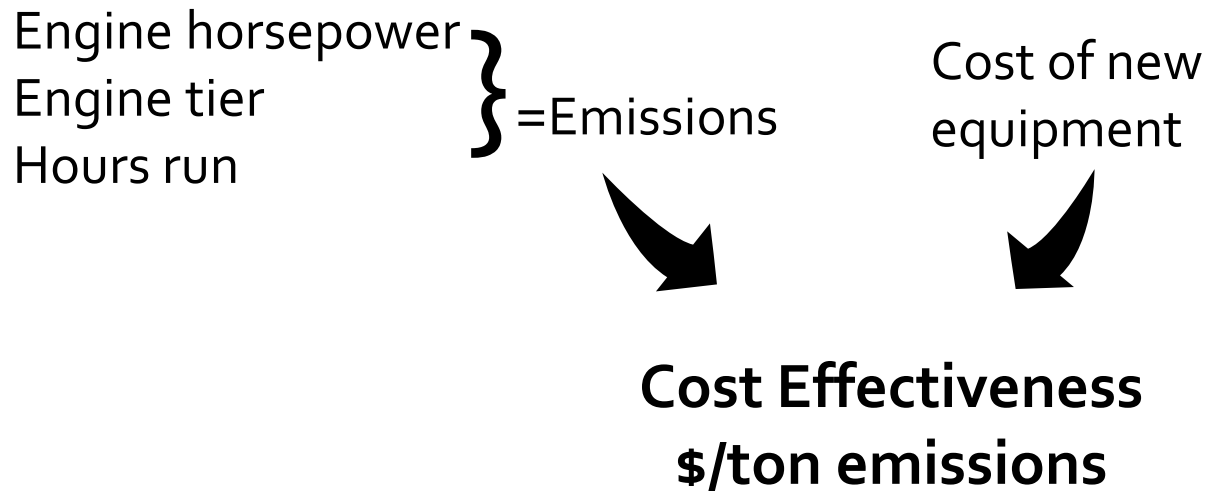
(1 Project in Carl Moyer, 1 Project in FARMER, Max 2 per year)



# Frequently Asked Questions

**Can I use this program to replace Tier 1 and 2 stationary engines?**

Yes. All new equipment needs to be tier 4 final or zero emission.



# Frequently Asked Questions

**Can I purchase used equipment?**

**YES**

**Can I use this program to replace  
out of compliance heavy duty  
trucks?**

**NO**

**Can I buy a larger horsepower  
tractor?**

**YES, no more than 125% of the  
base equipment**



# Questions?

- Call our office  
530-934-6500

- Websites

<https://bit.ly/GlennCarlMoyer>

<https://bit.ly/GlennFARMER>

- Applications available in our office, by email, or on our website.



# See What's Possible:

## Farm Bill Conservation Programs

### Opportunities for Private Landowners

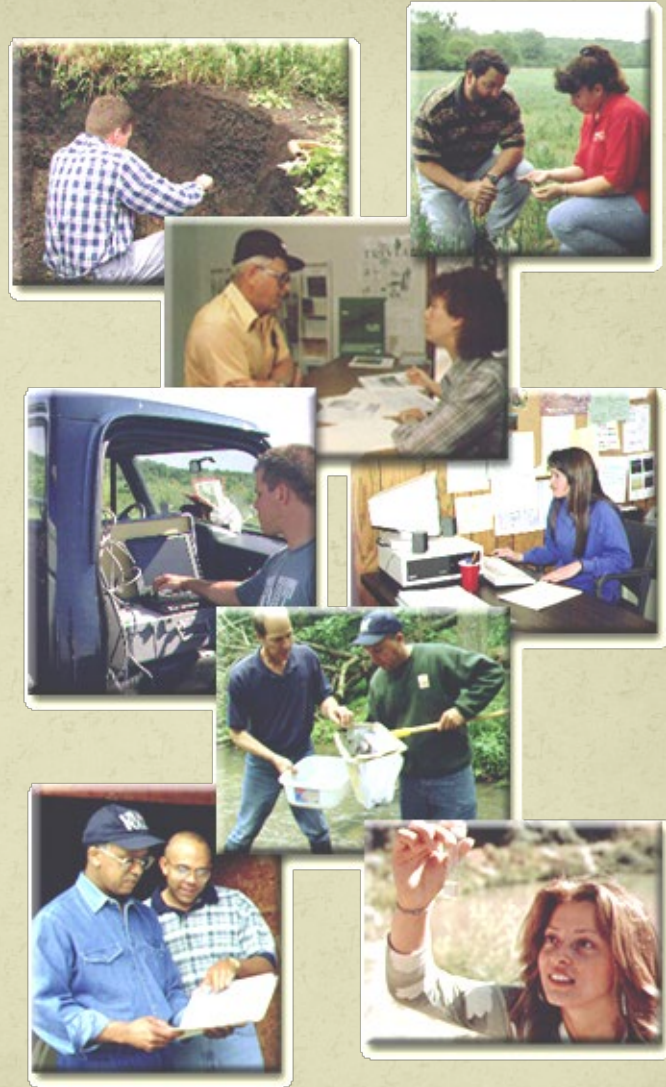
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# *Who We Are...*

*Helping People Help the  
Land through voluntary  
conservation*



## NRCS Conservation Programs

NRCS's conservation programs help people reduce soil erosion, enhance water supplies, improve water quality, increase wildlife habitat, and reduce damages caused by floods and other natural disasters.



► **NRCS' approach combines locally-led solutions with science and research; landowner stewardship; partnerships; and proven conservation practices to produce results for agriculture and the environment.**



# See What's Possible

**Programs address a broad range of resource concerns:**

- **Soil Quality**
- **Water Conservation (quality and quantity)**
- **Organic transition**
- **Pollinator habitat**
- **Wildlife Habitat**
- **Energy conservation**
- **Air quality**
- **Dairy water quality**
- **Conservation planning**
- **Forestry**
- **Working landscape easement programs**
- **And More!**





# Conservation Financial Incentives Environmental Quality Incentives Program (EQIP)

Provides the broadest range of conservation program assistance to producers. Practices include structural and management practices.





# EQIP Assistance for Ranchers

- **Conservation planning**
- **Prescribed grazing**
- **Range planting**
- **Watering facilities**
- **Fencing**
- **Brush control**
- **Prescribed burning**
- **Invasive plant control**





# EQIP Assistance for Farmers

- Conservation planning
- Water Conservation
- Water Quality
- Forest Management
- Air Quality
- Energy Conservation
- Wildlife Habitat
- Soil Quality





# EQIP

- **Continuous sign up; deadlines for funding consideration each fiscal year**
- **Applications filed with local NRCS office**
- **Eligibility to Farm Service Agency (FSA) if selected**
- **Payments: around 50 percent of average estimated cost of installing practices (historically underserved producers: up to 75 percent)**
- **Payment Limitation applied to the period of FY 2019 to 2024. EQIP Payment Limitation (\$450,000)**





# RCPP

- **Regional Conservation Partnership Program**
- **Extension of EQIP (same application process and payment limits)**
- **Priorities are specific to the RCPP agreement**
  - **Maximizing waterbird habitat on CA ricelands**
  - **Soil health management systems in Northern California**





# Stewardship

## Conservation Stewardship Program (CSP)

- **Payment incentives for practicing good stewardship**
- **Address resource concerns in a comprehensive manner:**
  - Improving and maintaining existing activities
  - Adopting additional conservation activities and 'enhancements'
  - Structural and management practices
- **Contracts are 5 years**
- **Maximum payment of \$40,000/year and \$200,000 over lifetime of contract**
- **Continuous sign-up with periodic cut-offs for ranking**





# See What's Possible:

## Farm Bill Conservation Programs

### Opportunities for Private Landowners

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**For more information:**

**Kristin Guy, District Conservationist, (530) 361-3170 (Glenn County)**





United States  
Department of  
Agriculture

# FARM SERVICE AGENCY



# FSA Farm Loan Programs

FSA is supervised credit - different from traditional credit. FSA is the lender of first opportunity for those who may not otherwise qualify for ag credit.

## Direct and guaranteed applicants must:

- Be unable to obtain sufficient credit elsewhere
- Be a citizen or a legal resident alien
- Possess legal capacity to incur the loan obligation
- Have acceptable credit history
- Be the owner-operator or tenant-operator of a family farm



# Types of FSA Loans

- Direct Loan Programs- Farm Ownership (FO), Operating (OL) and Microloan (ML)
- Guaranteed Loan Program
- Beginning Farmer Down Payment Loan



## Operating Loans

- Operating loans can be used to purchase:
  - Equipment
  - Livestock
  - Production expenses
  - Refinance operating expenses





# Farm Ownership Loan

- Ownership loans can be used to pay for:
  - Land purchases
  - Capital improvements
  - Soil and water conservation
  - Loan closing and related expenses

Farm Ownership loans can be repaid in up to 40 years. Limit \$600,000



# Microloans

- Microloans are limited to \$50,000
- Operating microloans can be used for things like start-up expenses, seed, fertilizer, marketing, livestock etc.
- Ownership loans can be used for expenses like purchasing land or a farm, enlarging an existing farm, constructing buildings, paying closing costs etc.
- The experience requirements have been modified to accommodate applicants: small business, management and military experience can count towards management requirements for ownership loans while working with a mentor can modify/count toward operating loan requirements.
- Streamlined application process, less paperwork
- Operating loans repayment terms are 1 to 7 years while ownership is up to 25 years.

# Guaranteed Loans

- Guaranteed loans are made and serviced by agricultural lenders (farm credit, local bank etc.)
- Funded by the lender
- Often used to help lenders continue with customers who have experienced setbacks
- To qualify for a FSA guarantee loan an applicant must: meet general eligibility requirements, be unable to obtain the loan without a guarantee and have a feasible plan and adequate collateral as determined by the lender
- \$1,825,000 Limit for FY 2022





United States  
Department of  
Agriculture

## Down Payment Loan:

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Applicants must:

- be beginning farmers, veteran or SDA farmers
- Provide a 5% down payment

Down Payment loan funds may be used only to partially finance the purchase of a family farm.

FSA can loan up to 45% of the least of the purchase price, appraised value or \$667,000 (max loan is \$300,000).

The balance of the purchase price not covered by the down payment loan and the loan applicant's down payment may be financed by a private lender, a cooperative, or the seller.



# General Eligibility Requirements

Direct and guaranteed applicants must:

- Not be delinquent on federal debt
- Have managerial ability for the type of loan requested
- Not have caused the agency a loss by receiving debt forgiveness (some exceptions)

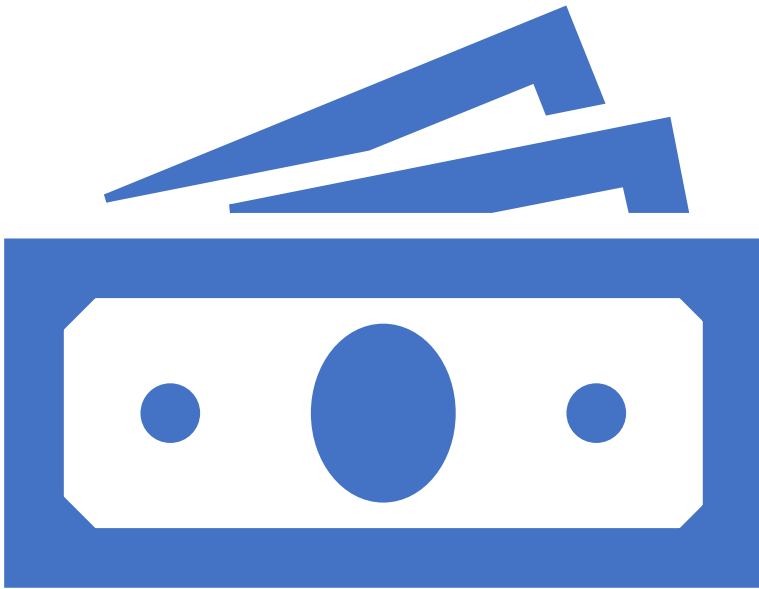
Not have been convicted of planting, cultivating, growing, producing, harvesting, or storing a controlled substance within the last five years

# A direct loan applicant must:

- Develop a realistic Farm Business Plan that projects repayment ability for the loan and meet general eligibility criteria
- Provide adequate collateral for the loan
- Agree to take borrower training courses (if required) and “graduate” to private sector credit when able to do so
- Not exceed restriction on years of eligibility
- **Have applicable education, training, or farm experience that provides reasonable prospects of success** (For an FO loan, must have participated in the management of a farm or ranch for at least 3 years)
  - Certain types of qualifications can reduce the 3-year experience requirement: these include degrees, military experience, and having a mentor



# FSA Lending Basics



- FSA is supervised credit—the goal is to graduate!
- 5 C's of credit: character, capital, collateral, conditions (market), and capacity (to repay)
- Know your credit score, your credit report, cash flow and your farm finances! Have a plan for success and repayment.

# Definitions to Know

- *Beginning Farmer according to FSA: A beginning farmer or rancher is an individual or entity who:*

(1) has not operated a farm or ranch for more than 10 years (2) meets the loan eligibility requirements of the program to which he/she is applying (3) for an FO loan, does not own a farm greater than 30 percent of the average size farm in the county

- *SDA: Historically Underserved Groups*

As defined by law, an SDA applicant is one who is a member of a socially disadvantaged group whose members have been subjected to racial, ethnic, or gender prejudice because of their identity as a member of a group, without regard to their individual qualities.

SDA groups are African Americans, American Indians, Alaskan Natives, Hispanics, Asians, Pacific Islanders, and Women.



# Telling your story

**You have a voice and we want to hear it.**

- There are many boards and committees that seek farmer input and perspective
- When you participate in our programs, we also want to hear from you and build a working relationship with you

**Farm  
Service  
Agency**

**fsa.usda.gov**

# Questions?

Find your local office for help with programs or loans  
by visiting: [offices.usda.gov](https://offices.usda.gov)

**Tehama/Red Bluff Office (530) 527-2667**  
**Glenn/Colusa Office (530) 934-4601**



THE OFFICE OF ENVIRONMENTAL FARMING & INNOVATION



# healthy soils program



# **What is the CA Healthy Soils Program?**

The Healthy Soils Program stems from the California Healthy Soils Initiative, a collaboration of state agencies and departments to promote the development of healthy soils on California's farmlands and ranchlands.

AGRICULTURAL  
MANAGEMENT PRACTICES  
ELIGIBLE FOR FUNDING  
THROUGH THE CDFA  
HEALTHY SOILS PROGRAM  
(HSP)

Updated: April 19, 2023

CDFA has identified eligible agricultural management practices that sequester carbon, reduce atmospheric GHGs, and improve soil health, for funding through the Healthy Soils Incentives Program, Healthy Soils Block Grant Program and Healthy Soils Demonstration Program. These practices were selected from the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Conservation Practice Standards (CPS) and CDFA specified practices such as compost application and whole orchard recycling. HSP-specific Quantification Methodology and tools to estimate GHG reduction and Co-Benefits developed in collaboration with the California Air Resources Board (CARB) and USDA NRCS are currently available for these practices. Eligible practices are categorized based on agricultural systems where they can be implemented. They are divided into three categories:



## **I. Cropland**

1. Alley Cropping (USDA NRCS CPS 311)
2. Compost Application (USDA NRCS CPS 808)
  - o Compost Purchased from a Certified Facility
  - o On-farm Produced Compost
3. Conservation Cover (USDA NRCS 327)
4. Conservation Crop Rotation (USDA NRCS 328)
5. Contour Buffer Strips (USDA NRCS CPS 332)
6. Cover Crop (USDA NRCS CPS 340)
7. Field Border (USDA NRCS CPS 386)
8. Filter Strip (USDA NRCS CPS 393)
9. Forage and Biomass Planting /Pasture and Hay Planting (USDA NRCS 512)
- 10.Grassed Waterway (USDA NRCS CPS 412)

- 11.Hedgerow Planting (USDA NRCS CPS 422)
- 12.Herbaceous Wind Barrier (USDA NRCS CPS 603)
- 13.Mulching (USDA NRCS CPS 484)
- 14.Multi-story Cropping /Forest Farming (USDA NRCS CPS 379)
- 15.Nutrient Management (USDA NRCS CPS 590) (15% reduction in fertilizer application only)
- 16.Residue and Tillage Management – No-Till (USDA NRCS CPS 329)
- 17.Residue and Tillage Management – Reduced Till (USDA NRCS CPS 345)
- 18.Riparian Forest Buffer (USDA NRCS CPS 391)
- 19.Riparian Herbaceous Cover (USDA NRCS CPS 390)
- 20.Strip Cropping (USDA NRCS CPS 585)
- 21.Tree/Shrub Establishment (USDA NRCS CPS 612)
- 22.Vegetative Barriers (601) (USDA NRCS CPS 601)
- 23.Windbreak/Shelterbelt Establishment (USDA NRCS CPS 380)

## **II. Orchard or Vineyard**

1. Compost Application (USDA NRCS CPS 808)
  - o Compost Purchased from a Certified Facility
  - o On-farm Produced Compost
2. Conservation Cover (USDA NRCS 327)
3. Cover Crop (USDA NRCS CPS 340)
4. Filter Strip (USDA NRCS CPS 393)
5. Mulching (USDA NRCS CPS 484)
6. Hedgerow Planting (USDA NRCS CPS 422)
7. Nutrient Management (USDA NRCS CPS 590) (15% reduction in fertilizer application only)
8. Residue and Tillage Management – No-Till (USDA NRCS CPS 329)
9. Residue and Tillage Management – Reduced Till (USDA NRCS CPS 345)
10. Whole Orchard Recycling (USDA NRCS CPS 808)
11. Windbreak/Shelterbelt Establishment (USDA NRCS CPS 380)

### **III. Grazing Land**

1. Compost Application (USDA NRCS CPS 808)
  - Compost Purchased from a Certified Facility
  - On-farm Produced Compost
2. Hedgerow Planting (USDA NRCS CPS 422)
3. Prescribed Grazing (USDA NRCS CPS 528)
4. Range Planting (USDA NRCS CPS 550)
5. Riparian Forest Buffer (USDA NRCS CPS 391)
6. Silvopasture (USDA NRCS CPS 381)
7. Tree/Shrub Establishment (USDA NRCS CPS 612)
8. Windbreak/Shelterbelt Establishment (USDA NRCS CPS 380)



**\$4 million available for eligible GLENN COUNTY farmers and ranchers;**

**\$1 million will be dedicated to eligible Socially Disadvantaged Farmers and Ranchers (SDFRs).**

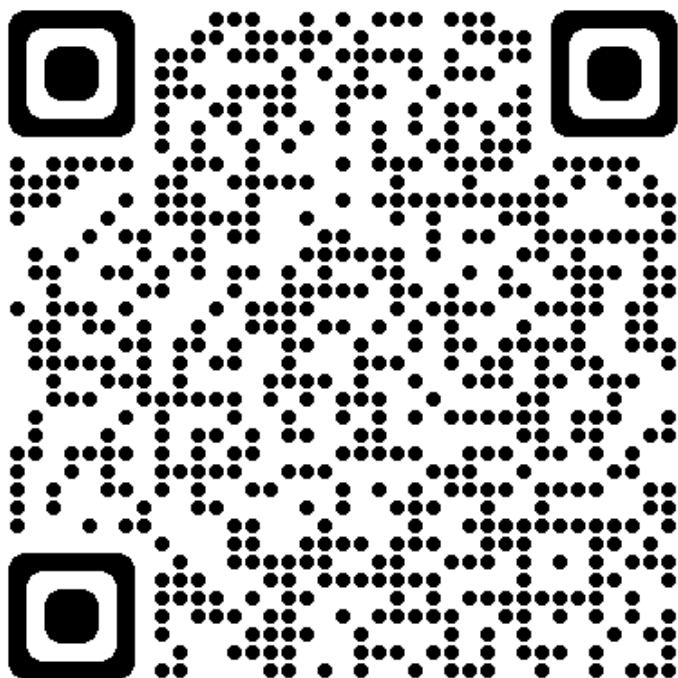
Grant is 100% reimbursable up to \$200,000 per entity.

This is a competitive grant; NO FIRST COME FIRST SERVE.

All applications will go through a several step review process before award.

Tentative date for OPEN solicitation is 3/18/2024.

Tentative date for CLOSE solicitation is 4/15/2024.



**Technical Assistance Resources**  
**FREE** technical assistance is available for the development and submission of an HSP grant application, as well as help with coordinating implementation of an awarded project.

**Please contact us today!**

Kellie Wilson-Burt  
Program Specialist  
Glenn County RCD  
Cell: 530-701-6209  
Office: 530-934-4601 x3176  
Email: [kellie@glenncountyrcd.org](mailto:kellie@glenncountyrcd.org)

Lizzeth Mendoza  
Community Education Specialist  
UCANR / UCCE-Glenn County  
Cell: 530-517-8187  
Office: 530-865-1105  
Email: [lthmendoza@ucanr.edu](mailto:lthmendoza@ucanr.edu)



# Mobile Irrigation Lab





# About the Mobile Irrigation Lab (MIL)

## Free irrigation evaluations

- Butte, Glenn, Tehama, Shasta Counties
- New MIL in Yolo

## Provide comprehensive irrigation information to growers

- Customized report that is 'snapshot' of system
- Measure DU and application rate (in/hr)
- Current system performance Vs. design capacity
- Provide tips and recommendations





# Cost of the MIL

## Free service funded by grants

- CDFA WETA
- DWR SLO

## Previous funding sources

- Almond Board
- DWR
- NRCS
- Shasta College
- Local irrigation districts
- CDFA





# Distribution Uniformity - DU

- A measure of how even an irrigation system applies water to an area
- Close to 100% is the goal
- Lower DU =
  - Less efficient distribution
  - More water applied to meet the minimums
  - Increased water and pump use





# How It Works

- Sign up
- Growers contacted for scheduling
  - April - September
- Provide system details
  - Irrigation design plans, system layout
- Evaluations take 2 to 3 hours each
- Reports returned 4 to 8 weeks





# Pressure Testing



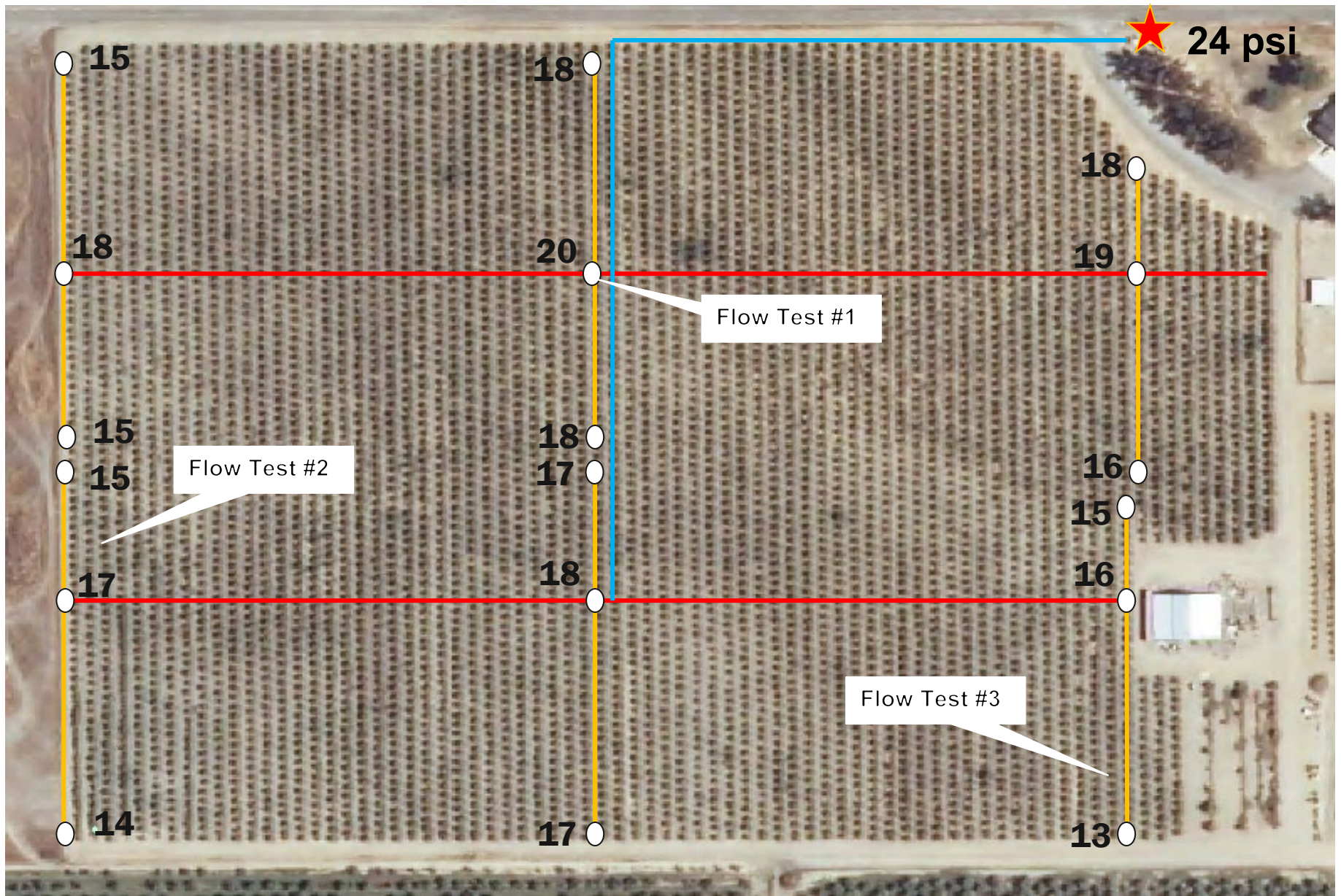


# Measuring Flow Rates



Test sprinklers/emitters in high & low psi areas





System details – Netafim Supernet Jr. Micros with blue nozzles and 25 psi regulators



# Pressure changes flow rates!

Enter ml's caught:

Pressure=20

## Location # 1

|     |                             |    |     |            |
|-----|-----------------------------|----|-----|------------|
| 290 | The flow rate for emitter # | 1  | was | 9.19 gph.  |
| 292 | The flow rate for emitter # | 2  | was | 9.26 gph.  |
| 295 | The flow rate for emitter # | 3  | was | 9.35 gph.  |
| 296 | The flow rate for emitter # | 4  | was | 9.38 gph.  |
| 296 | The flow rate for emitter # | 5  | was | 9.38 gph.  |
| 298 | The flow rate for emitter # | 6  | was | 9.45 gph.  |
| 299 | The flow rate for emitter # | 7  | was | 9.48 gph.  |
| 300 | The flow rate for emitter # | 8  | was | 9.51 gph.  |
| 300 | The flow rate for emitter # | 9  | was | 9.51 gph.  |
| 300 | The flow rate for emitter # | 10 | was | 9.51 gph.  |
| 305 | The flow rate for emitter # | 11 | was | 9.67 gph.  |
| 305 | The flow rate for emitter # | 12 | was | 9.67 gph.  |
| 305 | The flow rate for emitter # | 13 | was | 9.67 gph.  |
| 308 | The flow rate for emitter # | 14 | was | 9.76 gph.  |
| 310 | The flow rate for emitter # | 15 | was | 9.83 gph.  |
| 320 | The flow rate for emitter # | 16 | was | 10.14 gph. |

The average flow rate was 9.55 gph.  
 The average application rate was 0.031 in/hr.  
 The Flow DU for this location was 97.36 %

Enter ml's caught:

Pressure= 16

## Location # 2

|     |                             |    |     |           |
|-----|-----------------------------|----|-----|-----------|
| 260 | The flow rate for emitter # | 1  | was | 8.24 gph. |
| 265 | The flow rate for emitter # | 2  | was | 8.40 gph. |
| 265 | The flow rate for emitter # | 3  | was | 8.40 gph. |
| 268 | The flow rate for emitter # | 4  | was | 8.50 gph. |
| 268 | The flow rate for emitter # | 5  | was | 8.50 gph. |
| 270 | The flow rate for emitter # | 6  | was | 8.56 gph. |
| 270 | The flow rate for emitter # | 7  | was | 8.56 gph. |
| 272 | The flow rate for emitter # | 8  | was | 8.62 gph. |
| 272 | The flow rate for emitter # | 9  | was | 8.62 gph. |
| 275 | The flow rate for emitter # | 10 | was | 8.72 gph. |
| 275 | The flow rate for emitter # | 11 | was | 8.72 gph. |
| 275 | The flow rate for emitter # | 12 | was | 8.72 gph. |
| 280 | The flow rate for emitter # | 13 | was | 8.88 gph. |
| 280 | The flow rate for emitter # | 14 | was | 8.88 gph. |
| 290 | The flow rate for emitter # | 15 | was | 9.19 gph. |
| 300 | The flow rate for emitter # | 16 | was | 9.51 gph. |

The average flow rate was 8.69 gph.  
 The average application rate was 0.028 in/hr.  
 The Flow DU for this location was 96.51 %

Enter ml's caught:

Pressure=13

## Location # 3

|     |                             |    |     |           |       |
|-----|-----------------------------|----|-----|-----------|-------|
| 200 | The flow rate for emitter # | 1  | was | 6.34 gph. | The a |
| 210 | The flow rate for emitter # | 2  | was | 6.66 gph. | The a |
| 215 | The flow rate for emitter # | 3  | was | 6.82 gph. | The a |
| 215 | The flow rate for emitter # | 4  | was | 6.82 gph. | The a |
| 220 | The flow rate for emitter # | 5  | was | 6.97 gph. | The a |
| 220 | The flow rate for emitter # | 6  | was | 6.97 gph. | The a |
| 225 | The flow rate for emitter # | 7  | was | 7.13 gph. | The a |
| 225 | The flow rate for emitter # | 8  | was | 7.13 gph. | The a |
| 225 | The flow rate for emitter # | 9  | was | 7.13 gph. | The a |
| 230 | The flow rate for emitter # | 10 | was | 7.29 gph. | The a |
| 230 | The flow rate for emitter # | 11 | was | 7.29 gph. | The a |
| 233 | The flow rate for emitter # | 12 | was | 7.39 gph. | The a |
| 235 | The flow rate for emitter # | 13 | was | 7.45 gph. | The a |
| 236 | The flow rate for emitter # | 14 | was | 7.48 gph. | The a |
| 238 | The flow rate for emitter # | 15 | was | 7.54 gph. | The a |
| 240 | The flow rate for emitter # | 16 | was | 7.61 gph. | The a |
| 240 | The flow rate for emitter # | 17 | was | 7.61 gph. | The a |
| 240 | The flow rate for emitter # | 18 | was | 7.61 gph. | The a |
| 242 | The flow rate for emitter # | 19 | was | 7.67 gph. | The a |
| 243 | The flow rate for emitter # | 20 | was | 7.70 gph. | The a |
| 245 | The flow rate for emitter # | 21 | was | 7.77 gph. | The a |
| 246 | The flow rate for emitter # | 22 | was | 7.80 gph. | The a |
| 248 | The flow rate for emitter # | 23 | was | 7.86 gph. | The a |
| 260 | The flow rate for emitter # | 24 | was | 8.24 gph. | The a |
| 265 | The flow rate for emitter # | 25 | was | 8.40 gph. | The a |
| 275 | The flow rate for emitter # | 26 | was | 8.72 gph. | The a |
| 280 | The flow rate for emitter # | 27 | was | 8.88 gph. | The a |
| 300 | The flow rate for emitter # | 28 | was | 9.51 gph. | The a |

The average flow rate was 7.56 gph.  
 The average application rate was 0.025 in/hr.  
 The Flow DU for this location was 88.01 %

The average flow rate for the entire system was 8.60 gph.  
 The average application rate for the system was 0.028 in/hr.

The Overall System Flow DU was 84.53 %

# Comprehensive Inspection

- How is the hardware performing
  - Leaking and plugging
  - Valves & pressure regulators
  - Malfunctioning emitters/sprinklers
  - Sprinkler manufacturer statistics compared to collected field data





*Kevin Greer*

727-1297

[kgreer@tehamacountyrca.org](mailto:kgreer@tehamacountyrca.org)



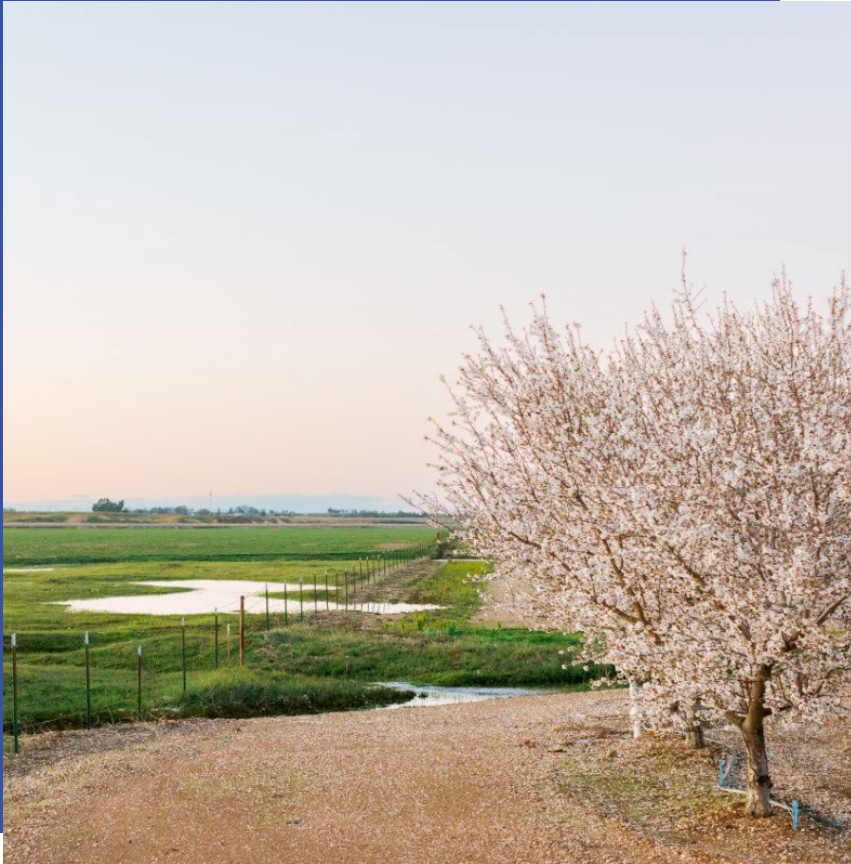
February 16, 2024

# University of California Cooperative Extension

LIZZETH MENDOZA

CLIMATE SMART AGRICULTURE SPECIALIST  
UCCE, GLENN COUNTY

**UNIVERSITY OF CALIFORNIA**  
Agriculture and Natural Resources



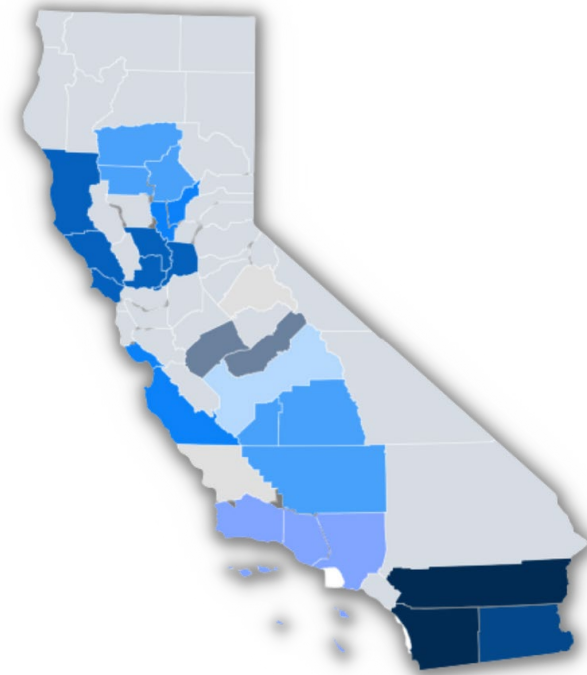


# HOW CAN WE HELP YOU?

Through an agreement with CDFA, there are currently 10 community education specialists throughout California & can provide YOU technical assistance.

Technical Assistance for growers & ranchers applying for CDFA programs that encourage & promote climate smart agriculture practices includes & is not limited to:

- Application assistance
- Support project design
- Project monitoring
- Collecting & submitting documents
- Verifications



**Alternative Manure Management Program**  
CDFA OFFICE OF ENVIRONMENTAL FARMING & INNOVATION



**Healthy Soils Program**



CDFA PROGRAMS

## ALTERNATIVE MANURE MANAGEMENT PROGRAM (AMMP)

- COMPETITIVE grant through the California Department of Food and Agriculture (CDFA)
- Funding for dairy and livestock operations to implement alternative manure management practices that reduce methane emissions.

Awards up to \$750,000

**UNIVERSITY OF CALIFORNIA**  
Agriculture and Natural Resources



**Alternative Manure  
Management Program**

CDFA OFFICE OF ENVIRONMENTAL FARMING & INNOVATION

## STATE WATER EFFICIENCY & ENHANCEMENT PROGRAM (SWEEP)

- Provides financial assistance to implement irrigation systems that reduce greenhouse gases AND save water on California ag operations.
- Up to \$200,000 to implement the use of new irrigation systems on operating Agriculture Farms and Ranches



Traditional solicitation is currently closed & some block grants are open!

## TRADITIONAL SOLICITATION



- Apply directly to CDFA via website
- CDFA manages your grant
- Communication is directly with CDFA staff
- Reimbursements directly from CDFA
- Verifications checked by CDFA
- **ANY AG OPERATIONS IN CALIFORNIA CAN APPLY**

## BLOCK GRANTS



- Apply directly to your desired organization from the awarded list
- Organization manages your grant
- Communication is directly with chosen organization
- Reimbursements directly from organization
- Organization has communication with CDFA
- **ONLY GROWERS/RACHERS IN SPECIFIC COUNTIES CAN APPLY**



# BLOCK GRANT AWARDEES

SWEEP block grant awards available for ranchers and growers in Glenn County:

- Glenn County Resource Conservation District - **OPENS TODAY**
- Tehama County Resource Conservation District - **OPEN**
- Butte County Farm Bureau - **OPEN**
- Colusa Indian Community Council

I have partnered with Glenn County RCD for technical assistance, but can help you with any of your applications.

Every organization may have slightly different requirements - always review the Request for Grant Applications (RGA).



## GLENN RCD - BLOCK GRANT

- RECEIVED \$4 MILLION FOR SWEEP
- RECEIVED \$4 MILLION FOR HSP
- ONLY AG OPERATIONS IN GLENN COUNTY CAN APPLY

## FUNDING & DURATION - SWEEP

- GLENN RCD APPLICATIONS OPEN TODAY
- APPLICATIONS ARE DUE MARCH 15TH
- COMPETITIVE PROCESS, UP TO \$200,000 AVAILABLE PER APPLICANT
- TENTATIVE PROJECT START DATE IS MAY 1, 2024
- PROJECT END DATE IS OCTOBER 31, 2025 - TENTATIVELY

## GRANT WORKS ON A REIMBURSEMENT BASIS



GLENN COUNTY  
RESOURCE CONSERVATION DISTRICT

25% of funding is reserved for  
socially disadvantaged farmers.



## SWEEP

### ELIGIBLE SYSTEM COMPONENTS

- Soil, weather, and plant sensors
- Drip system components
- Pump retrofits or replacement
- Fuel conversion (diesel to electric)
- Variable frequency drives
- Installation of renewable energy (solar)
- Replacement of leaky irrigation system
- Automation
- & more

**MUST SHOW ENERGY & WATER SAVINGS!**



- Installation of 24 solar panels to power pump
- 2 Soil moisture probes with data loggers
- Flow meter and a high performance sand separator





## SWEEP ALLOWABLE COSTS

- All components of irrigation systems
- Sensor hardware and telemetry
- Software associated with sensors and weather stations
- **Flow meters (required)**
- Permits
- Electric connection fees
- And more

MATCHING FUNDS ARE NOT REQUIRED  
BUT IF YOU EXCEED THE \$200k, YOU NEED  
TO DETERMINE WHERE THE DIFFERENCE  
WILL COME FROM.

**MUST SHOW ENERGY & WATER SAVINGS!**

# STEPS TO APPLY

---



1

## Gather your documents!

Contact Kellie or Lizzeth for questions and/or application assistance. Gather your documents:

- Pump efficiency tests - **out of pocket cost**
- Quotes
- Project design
- Energy bills (12 months)

2

## Apply

Application portal will be located on each organizations website. Answer questions & upload all required documents.

- Project design
- Budget worksheet
- Water savings tool & GHG Calculator tool OR PAT tool
- Quotes
- Other attachments

3

## Submit & wait

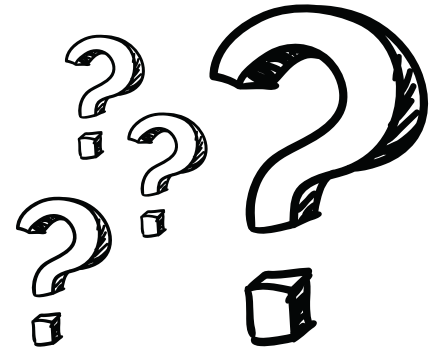
Once submitted you will receive all notifications from the organization you have applied with.

Implementation cannot begin until ALL parties have signed the grant agreement.

## SWEEP FAQ'S

1. Is there a minimum amount required for matching funds?  
No. Matching funds are encouraged, but not required.

2. Can applicants apply to both SWEEP and EQIP, and if awarded EQIP funding, withdraw their SWEEP application?  
Yes, applicants may apply to both programs. If awarded EQIP funding, applicants would not be eligible to receive SWEEP funding on the same parcels for the same equipment. Applicants may indicate components funded by EQIP as matching funds.





## SWEEP FAQ'S



3. Is a pump efficiency test required even if changes to the pump(s) are not a part of the project?

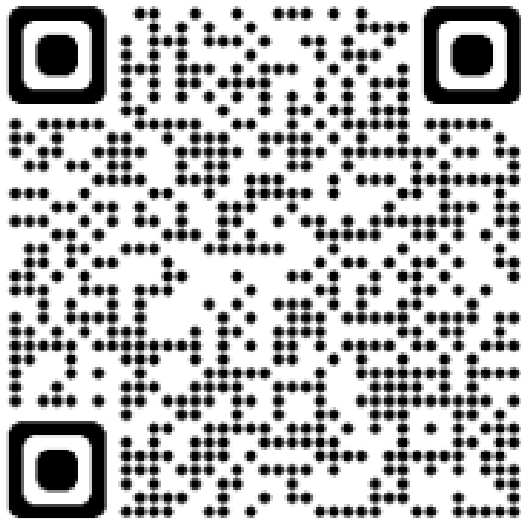
Yes, applicants must determine pump efficiency for all the pumps (including booster pumps) that service the irrigation system in order to complete the required SWEEP GHG Calculator Tool. This cost is not covered by SWEEP.

4. In what process will my application be reviewed if I apply with Glenn County RCD?

- Administrative Review: Is the application complete? Are all attachments complete?
- Technical Review: Evaluation of the benefits proposed by the project (water and GHG reduction). These reviewers will be agricultural irrigation water system specialists and experts familiar with SWEEP.
- Scoring Rubric: Technical reviewers will validate water and GHG calculations based upon supporting documentation and project design. Projects will be scored based on rubric in the RGA.



SWEEP APPLICATIONS OPEN TODAY!



## UCANR/CDFA Climate Smart Agriculture Partnership

Contact **Lizzeth Mendoza** for more  
information & assistance on  
completing the grant at **NO COST!**

LIZZETH MENDOZA  
LTHMENDOZA@UCANR.EDU  
(530) 517-8187  
821 E SOUTH ST ORLAND, CA

**UNIVERSITY OF CALIFORNIA**  
Agriculture and Natural Resources

# Bonus Presentations!!

Project Apis m.



**Stetcyn Maldonado**  
Seeds for Bees Manager,  
Project Apis m.

📞 [916-287-3035](tel:916-287-3035) 📱 [530-820-2438](tel:530-820-2438)

🌐 [www.ProjectApism.org](http://www.ProjectApism.org)

✉️ [stetcyn@projectapism.org](mailto:stetcyn@projectapism.org)

📍 [PO Box 26793 | Salt Lake City, UT 84126](#)



Sustainable Conservation

**Rogell Rogers | Agronomist, CCA, PCA**  
pronouns: he/him/his (209) 576-7729 ext.346  
[rrogers@suscon.org](mailto:rrogers@suscon.org) | [suscon.org](http://suscon.org)



# GLENN COUNTY PARTNERS BRING YOU PROGRAMS 101 FOR FARMERS & RANCHERS

## CONTACTS

Glenn County Resource Conservation District  
132 N Enright Avenue, Suite C  
Willows, CA  
(530) 934-4601 x5

Glenn County Agriculture Department  
720 N Colusa Street  
Willows, CA  
(530) 934-6501

Glenn County Air Pollution Control District & CUPA  
720 N Colusa Street  
Willows, CA  
(530) 934-6500

UCCE-Glenn County  
821 E South Street  
Orland, CA  
(530) 865-1107

USDA Natural Resources Conservation Service  
132 N Enright Avenue, Suite B  
Willows, CA  
(530) 934-4601 x3

USDA Farm Service Agency  
132 N Enright Avenue, Suite A  
Willows, CA  
(530) 934-4601 x2

Mobile Irrigation Lab  
...Serving Glenn County  
Resource Conservation District of Tehama County  
(530) 727-1297

# Thank you for coming!



GLENN COUNTY  
RESOURCE CONSERVATION DISTRICT



UC | University of California  
CE | Agriculture and Natural Resources  
Glenn County Cooperative Extension



**SPONSORS**  
+ Glenn County Climate  
Smart Ag Committee