



THANK YOU TO THE ALMOND CONFERENCE 2022 METAL SPONSORS!























Almond Board of California —

approved by the Board of Directors on October 24, 2018



Vision

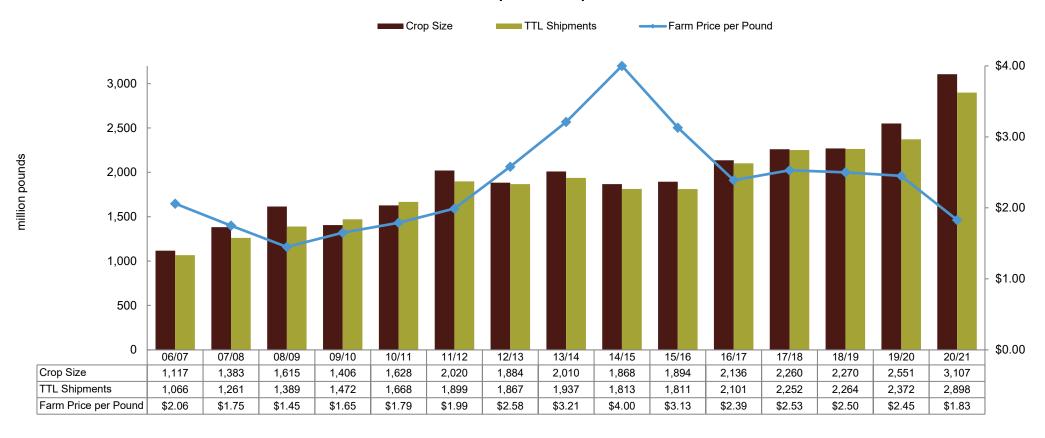
California Almonds make life better by what we grow and how we grow.

Mission

Expand global consumption of California almonds through leadership in strategic market development, innovative research, and accelerated adoption of industry best practices.

Versatility and Healthfulness have Driven Increased Almond Production/ Sales

Historical Crop Size + Shipments vs. Farm Price



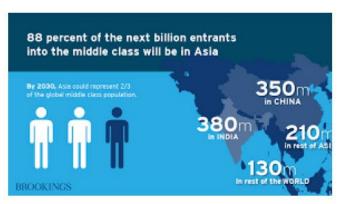
Sources: Almond Board of California, USDA, NASS/PRO



... 4 key trends have propelled almonds the last 10 years

Advancement of the Middle Class

Increase in Nutrition and Personal Health









Rise of Snacking

Plant-Based Milk Explosion



Investment in Nutrition Research => Health Halo



Can Assist With Blood Sugar Control

Are High in Vitamin

Deliver a Massive Amount of Nutrients

Eating Almonds
Reduces Hunger,
Lowering Your
Overall Calorie
Intake

Magnesium Also Benefits Blood Pressure Levels

Are Loaded With Antioxidants

Almonds May Be Effective For Weight Loss Prevent Harmful Oxidation of LDL Cholesterol

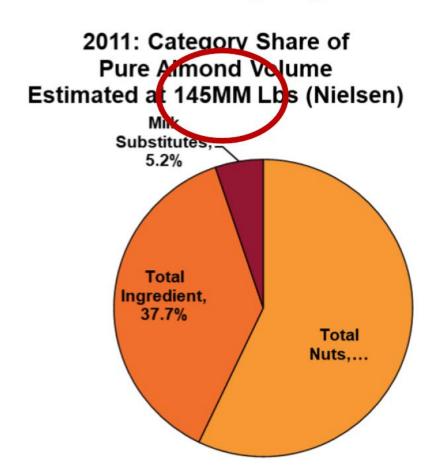
Can Lower
Cholesterol Levels

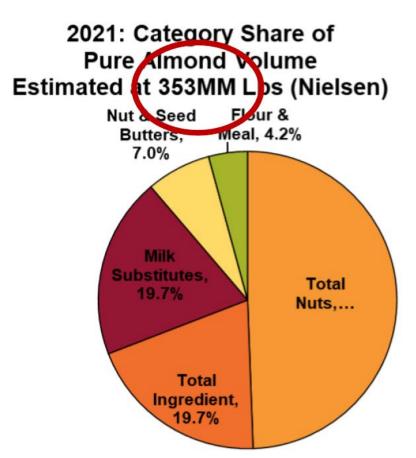
https://www.healthline.com/nutrition/9-proven-benefits-of-almonds



New products more than doubled under health halo (in less than a decade)

Almond Category Growth







Putting Almonds on the Front of Pack helps provide health halo to food item

::: New Product Introductions and Almond Halo Credibility



antioxidants



plant based protein



protein



fiber no additives



fiber protein sugar free



versatile fiber



protein calcium







Healthy brands have started to capitalize on their sustainability credentials in their consumer marketing: Consumer is linking "healthy" with "sustainable"









ANBAUFLÄCHE





CO2





13x weniae Wasser

(co) 15x weniger







Where do we get our beans from?

We source all our beans from Canada & China from reputable growers who do not incorporate pesticides and chemical fertilizers and who do not use genetically modified organisms. We are investigating some European options, although these are small and have only recently been developed.

OOD FOR THE PLANET

great to know that you can improve the world with every bite you take by ating plant-based foods. Food is responsible for vast amounts of reenhouse gas emissions. If we stopped eating meat, we could cut global 02 emissions by **24%**; the equivalent of taking **240 million cars** off the ads. For example, producing 1 kg of beef causes 10 to 30 kg of CO2 nissions. Producing 1 kg of tofu, on the other hand, only releases 1 kg of CO2.



REDUCING FOOD MILES

Did you know that the UK imports half of its food?

Help us change that by reducing food miles and keeping it local with the best of organic British dairy.



POWERED BY NATURE

Here in the Valley, all our electricity is from renewable sources - including solar power from our own farms.

We have a whole acre of solar panels on the roofs of our cowsheds which help supply us with our own renewable energy.

SUSTAINABLE PACKAGING

Most of our packaging is fully recyclable and we're working towards the goal of making our packaging from 100% recycled plastic too.















Sustainability is driving desires AND sales

"A substantial portion of consumers are currently willing to pay for sustainability, demonstrating that there is a market for 'mission-driven green' companies and why we see a rise in sustainable companies around the world."

- Businesswise, A Berkshire Hathaway Company

But, what do sales say...

Sustainability-marketed products delivered **54.7% of CPG market growth** (2015-2019) despite representing only 16.1% share of the category(\$) in 2019, up +2.4 ppts vs. 2015.

Sustainability-marketed products grew **7.1x faster** than products not marketed as sustainable.

Sustainability-marketed branded products enjoy a **significant price premium of 39.5%** vs. their conventionally-marketed branded counterparts.



Food Companies setting goals around key sustainability topics:

Circularity (net-zero and carbon negative/climate positive products)

 Balancing any carbon dioxide released into the atmosphere by a company's activities or going further by ensuring a project removes additional carbon dioxide from the atmosphere.

Regenerative Ag (Soil Health)

- Practices that can include the use of cover crops, no-till agriculture, crop rotation or reduced fertilizer and pesticide use and more that are aimed at promoting soil health by restoring soil's organic carbon.
- Sustainability Officers are cautionary of greenwashing regenerative agriculture.
- Emerging partnerships and new certifications such as the <u>Regenerative Organic Certification ROC</u> encompass soil health, animal welfare and social fairness.

Pollinators and Biodiversity

 Ensuring the food industry can provide new and exciting foods that safeguard ecosystems and the genetic diversity required to ensure pollinators have diverse habitat and crops can evolve to face pests and disease, climate change and extreme weather.

Water Scarcity (net-zero water usage policies, water reporting)

• Optimizing water resource management, accounting for the longterm effects of climate change.

Sustainability and nutrition density

 Creating a food system that can provide sufficient energy and essential nutrients required to maintain good health of the population without compromising future generations' ability to do the same. The world we want tomorrow starts with how we do business today

MARS

Mars committed to a science-based target to reduce our full value chain GHG emissions 27% by 2025 and 67% (two-thirds) by 2050, from 2015 levels.

Mars' long-term, science-backed ambition is to eliminate unsustainable water use in our value chain, beginning with halving it by 2025*.

GreenBiz

General Mills, Danone dig deeper into regenerative agriculture with incentives, funding

How two industry leaders invest to save the water supply as scarcity grows

Kraft Heinz and Nestlé Waters North America sustainability leaders say protection of the lifeblood resource will require looking outside the factory walls



California Almond Stewardship Platform (CASP)



Almonds have a long history of Stewardship:

- Growing for the longer term when growing trees
- Industry investment in research and outreach seeking to improve almond growing
- Tools including the Self-Assessment program, irrigation, N calculators
- Benchmarking with international program, FSA-SAI, to translate

Help tell your stories of Stewardship!



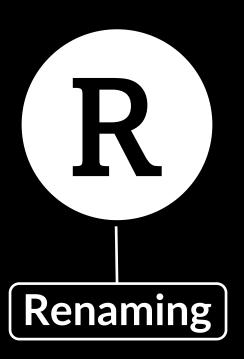


What We Will Cover Today

- 01 Re-Envisioning CASP
- O2 Streamlining the Catalog
- 03 Renaming & Rebranding
- 04 Look at Current Grower Activity
 - 05 Leveraging the Data

CASP 2.0 – Re-envisioning The Program







WHAT IS CASP?

The California Almond Stewardship Platform (CASP) is comprised of research, grower education, almond-based tools and self-assessment data. The CASP self-assessments reflect aggregated industry practices. Through the Grower Data Assessment & Evaluation tool, growers can opt-in to share data with handlers as part of their handler's sustainability programs.





Streamlining the Catalog

POWERFUL BUT NIMBLE

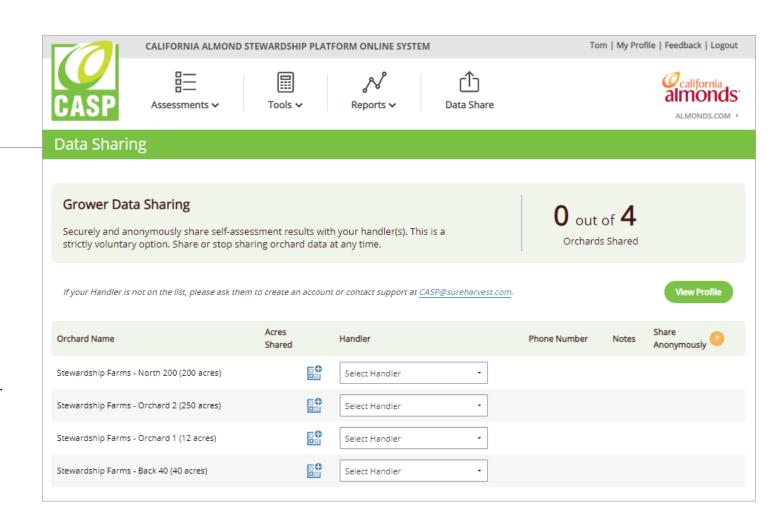


Data Sharing

Empowers growers to share their stewardship efforts with the market.

Brings new tools and reports to handlers to communicate growers work in stewardship and sustainability.

New tools coming for handlers.





New Website Addresses

www.almondstewards.com

Note

www.sustainablealmondgrowing.org is still active.

CALIFORNIA ALMOND STEWARDSHIP PLATFORM ONLINE SYSTEM













Michael | My Profile | Feedback | Logout

ools to help you maximize your almond yield sustainably. Learn about the benefits of CASP





Updates for New Assessment Year

The organization of assessments is a little different this year. Before beginning assessments for the new crop year, Orchard Setup must be reviewed and submitted for your orchards:



Click here to review and submit Orchard Setup for your orchards >



Complete, review or clone an assessment of orchard practices.

- Pick up where I left off: Air Quality
- Orchard Setup Summary
- Go to Assessments Dashboard
- Clone an assessment
- Learn about Assessments



Use these tools to improve farming practices.

- Calculate my nitrogen recommendations
- Calculate my irrigation recommendations
- Compare my orchards to the 2025 goals
- Create an irrigation and Nitrogen Management Plan worksheet
- Learn about all the tools



Reports

Display your assessment progress and run compliance reporting.

- Run the Assessment Progress
 Summary Report
- Run the Bee Friendly Farming Eligibility
 Report
- Run compliance reports for Irrigation and Nitrogen Management Plans
- Learn about all the reports

Assessment Overview

Orchards (1062 Acres) O out of 9
Assessments
Submitted

Orchard Setup

Grower Data Sharing

Securely and anonymously share self-assessment results with your handler(s). This is a strictly voluntary option. Share or stop sharing orchard data at any time.



Manage Data Sharing

Catalog Streamlining: Not just cutting questions

Bottom Line

Ensure ROI to grower – facilitate a tool, incentive opportunity, educational value, regulatory compliance

Align with an external programs (SAI, 2025 Goals, Bee Friendly Farming)

Move from 9 modules to fully assessed orchards

Remove repeated questions

Reduction in total question catalog

Restructure to make it easier for growers

Keep & improve Cloning Tool

Streamlining the Catalog

612

Current Catalog Practices (including repeats) **102**Repeated
Practice IDs

510

Catalog Practices



348

Orchard Practices

Legal compliance questions could be addressed through a general question confirming that the operation follows legal requirements (also likely needed for FSA to allow legal benchmark)

Orchard set-up questions asked once during orchard setup

Management level questions only asked for each organization

179
Orchard
Benchmarked
Practices

169

Orchard Practices Questions applicable to an orchard can be further reviewed for opportunities to remove questions or to rephrase (e.g., make more general)

New Structure for Assessment

Orchard Assessments

- -per orchard
- -per year
- -repeated questions across modules

Current Model

Orchard Setup

One and done; per orchard

Business Management

- -Per assessment year; per business
- -Whole farm practices & lega compliance

Orchard Practices

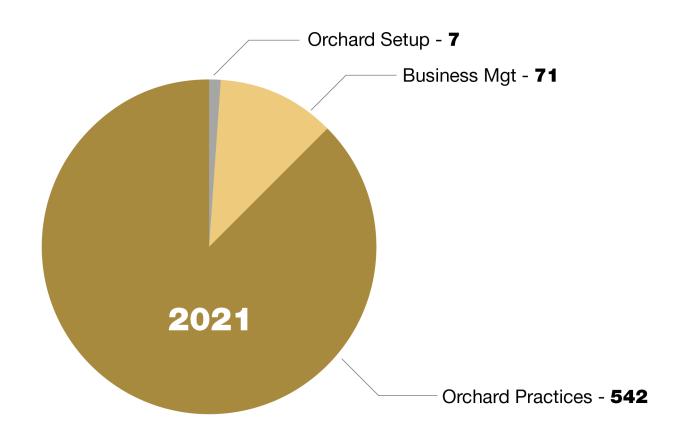
- -Per assessment year; per orchard
- -Topics, not modules & no repeat

3 Parts

= Assessment*

*Complete Assessment can be submitted

New Model

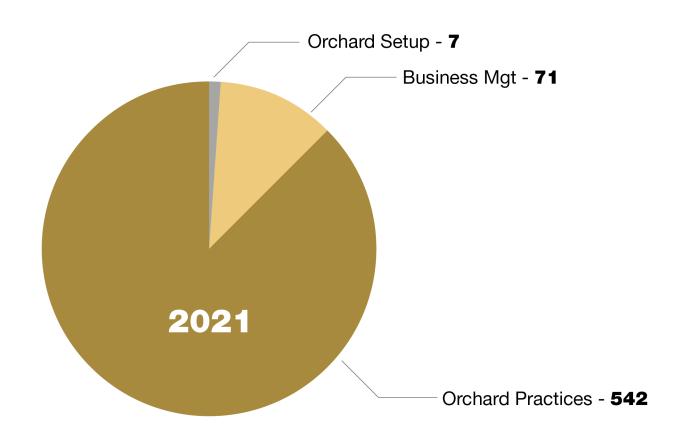


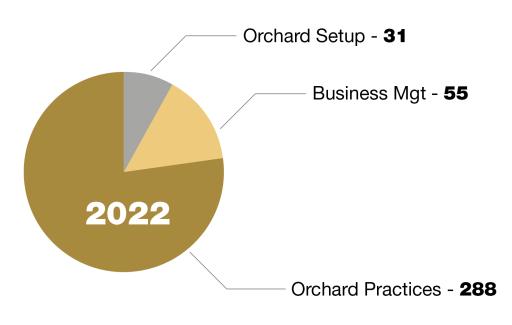
Assessment Catalog Size 2021

620 Questions



Goal of 30% Reduction Final Reduction - 40%





Assessment Catalog Size 2021

620 Questions

Assessment Catalog Size 2022

374 Questions



Renaming & Rebranding

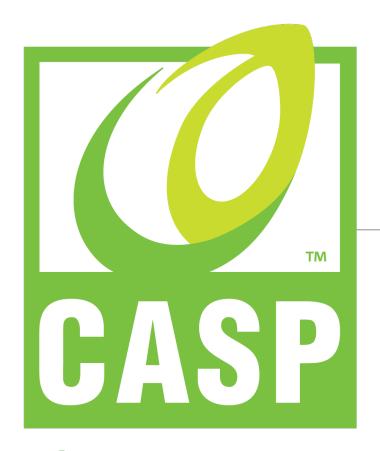
TIME FOR A CHANGE







California Almond Stewardship Platform



California Almond Stewardship Platform Research

Education

California Almond Stewardship Platform Online System

Self-Assessment

Grower Tools

Unique logo versions for online system and the self-assessment.







Current Activity Stats

STRONG INCREASE IN USE



CASP Participation

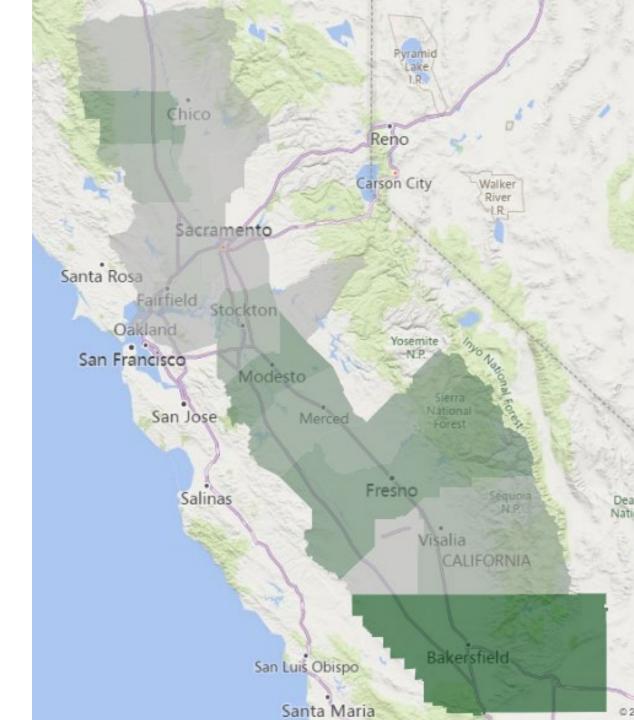
11/18/22

Participant Enabled to Complete Assessments	3049
Organizations Represented by Assessments	1198
Total Orchard Assessed Acres	531,144
Percentage Statewide Assessed Acres	40.24%
All Acres Managed by Assessed Organizations	650,230
Percentage Statewide Bearing Acres	49.26%



2021 Assessed Acreage

Rank	County	Assessed Acres
1	Kern	56,964
2	Fresno	45,400
3	Stanislaus	36,846
4	Merced	28,844
5	Madera	26,483
6	San Joaquin	19,251
7	Tulare	15,489
8	Glenn	15,171
9	Colusa	12,984
10	Kings	6,257
11	Solano	5,618
12	Yolo	3,134
13	Sutter	3,113
14	Butte	2,786
15	Contra Costa	1,319
16	No County Data	1,096
17	Tehama	875
18	Placer	726
19	Sacramento	338
Total		282,693

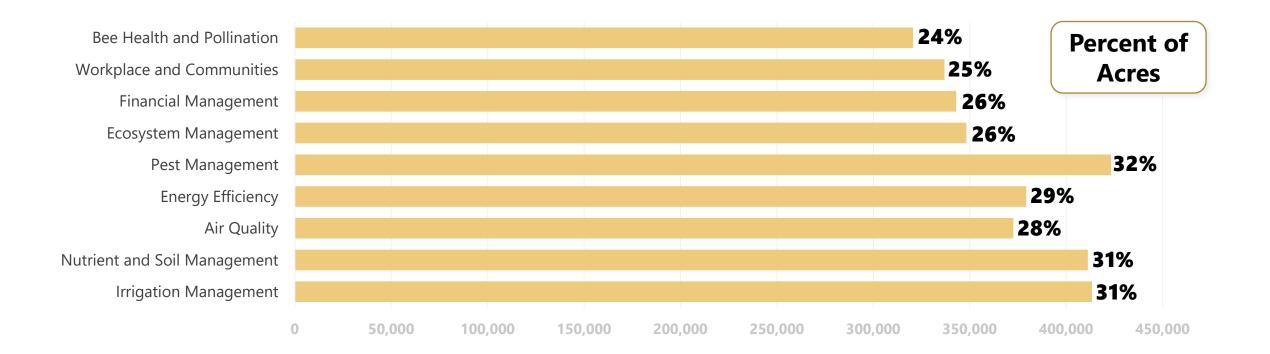


Breakdown Of Topic Areas Completed

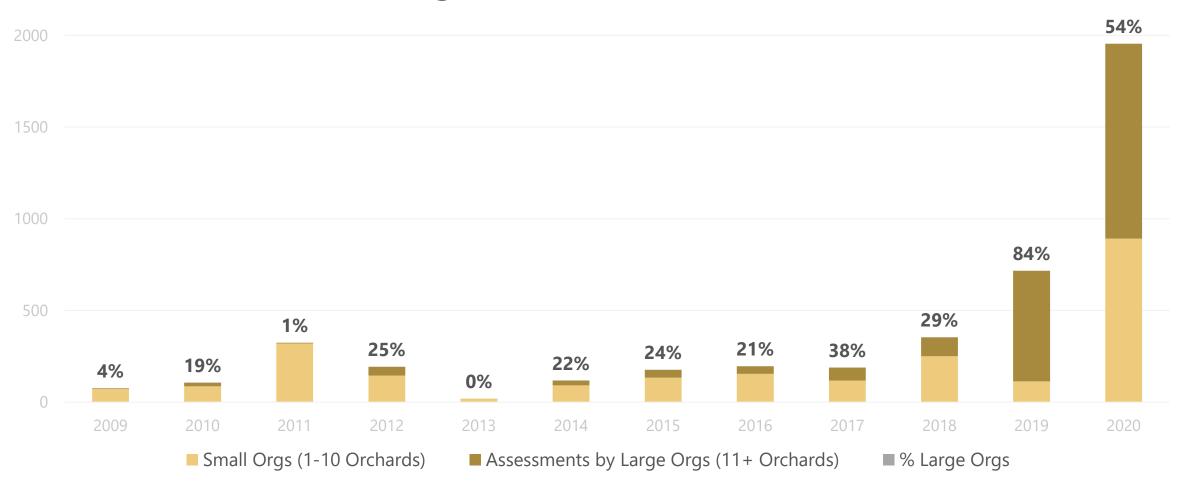
40%Total Orchard Acres

49%Total Acres Managed by Org

23%Full Assessment Acres



Assessments – Organization Size



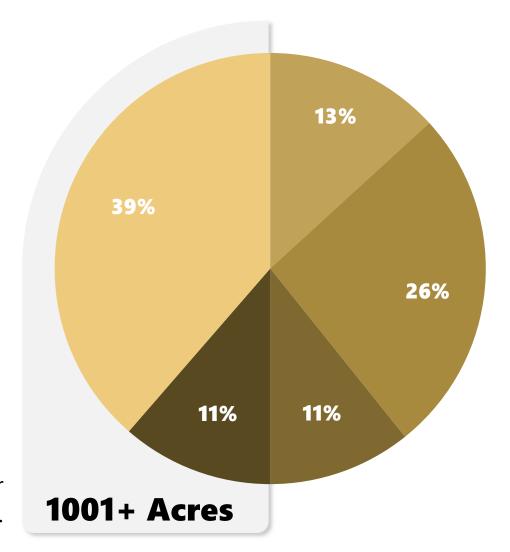
Large organizations responsible for 1% to 38% of assessments from 2009 to 2018, 84% in 2019 and 54% in 2020.

Assessments by Organization Acreage Size



- 101-500 acres
- 501-1000 acres
- 1001-2500 acres
- **2500+** acres

Organizations with 1001 acres or more responsible for **50% of 2020 assessments**.





Leveraging the Data

BRINGING BETTER ROI TO GROWERS



Leveraging Data to Help Growers

Benchmarking to other programs

	All valid questions answered		Some questions X No questions answered answered					External Programs			
	CASP Assessment			Irrigation Improvement Continuum					fsa		
	Orchard Setup	Business Management	Orchard Practices	Irrigation System Performance	Applied Water	Orchard Water Requirements	Soil Moisture	Plant Water Status	FSA Performance	BFF Eligibility	Status
Stewardship Farms South - Back 40 (40 acres)	*	•	•	3.0	3.0	3.0	1.0	2.0	Silver	Eligible	Review & Submit
Stewardship Farms - North 200 (200 acres)	•	•	•	2.0	3.0	2.0	3.0	2.0	Silver	Eligible	Submitted
Stewardship Farms North - Orchard 1 (12 acres)	· ·	•	!						No Score	Incomplete	Incomplete
Stewardship Farms - Orchard 2 (250 acres)	x	•	•						No Score	Incomplete	Incomplete



SAI Platform

Farm Sustainability Assessment

Farm

Sustainability





























- Data from CASP is benchmarked to the SAI Farm Sustainability Assessment (FSA)
- Strengthens data from CASP self-assessments.
- International sustainability assessment
- Gowers looking for FSA certifications can work with SAI

Example Members



Bee Friendly Farming

Working With Pollinator Partnership

- Data from CASP is benchmarked to the Bee Friendly Farming (BFF) Program.
- Use CASP self-assessment data to qualify for BFF.
- Gowers looking for BFF certifications can work with Pollinator Partnership.

California Almond Stewardship Platform (CASP) Bee Friendly Farming Report

This confidential report was prepared for:

Name: Tom Devol

Business: Stewardship Farms

Address: CA

Phone: (530) 570-5558 Email: tdevol@jainsusa.com Assessment Year: 2022

Follow these steps to apply for Bee Friendly Farming certification through Pollinator Partnership.

Generate and save this PDF report from CASP.

Open the BFF Application

The online application is managed by Pollinator Partnership and requires completion of the following sections:

About You

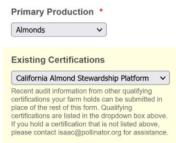
Bee Forage and Habitat

Confirmation and Payment

About You

- Your Name, Farm Name, Email and Phone Number
- Choose Almonds for Primary Production
- Under Existing Certifications, choose California Almond Stewardship Platform. Once selected, most questions in Bee Forage and Habitat and the entire Integration Pest Management section are skipped.













Miles Dakin Pollinator Partnership December 8th, 2022 POLLINATOR PARTNERSHIP





Today's Talk

1. What is Bee Friendly Farming?

2. Habitat Examples

3. How to Get BFF Certified

4. Resources











Bee Friendly Farming

Bee Friendly Farming Certified (BFF) is a second-party- verified certification program from the 501 (c) 3, award-winning nonprofit Pollinator Partnership, whose 25 year history has allowed it to grow into the largest non-profit focused exclusively on pollinator issues in the world.

POLLINATOR PARTNERSHIP



What do pollinators need?

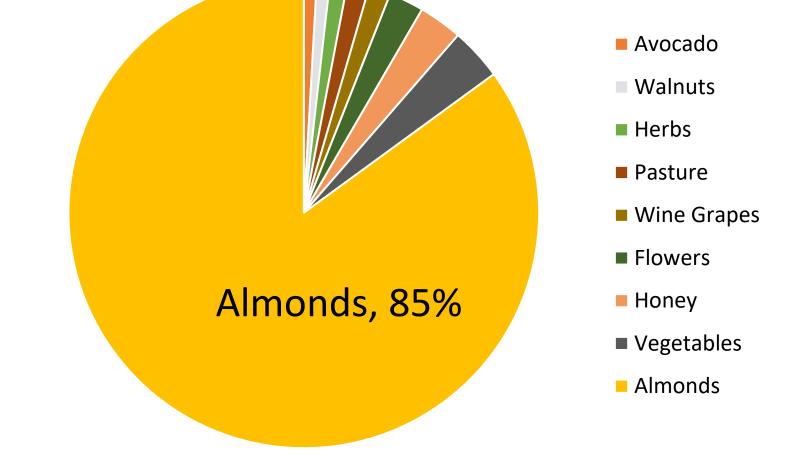
- Diverse Native plants
- Introduced, non-invasive can begood too•
- Continuous bloom
- Flowers rich in protein and nectar •

- Host plants
- Mix: woody, herbaceous, grasses
- Habitat Connectivity
- Reduced Pesticide Exposure
 - Nesting areas



Bee Friendly Farming Certified Farmers

Almonds represent the largest number of certified farms







1. Offer forage providing good nutrition for bees on at least 3% of land. Forage can be temporary, including cover crops.





2. Provide bloom of different flowering plants throughout the growing season, especially in early spring and late autumn.



3. Offer clean water for bees if not inhibited by government mandated water restrictions.



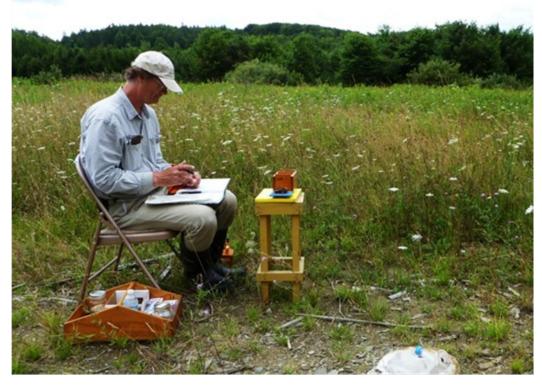


4. Provide permanent habitat for nesting through features such as hedgerows, natural brush, buffer strips, or bare ground.





5. Practice Integrated Pest Management (IPM); reduce or eliminate the use of chemicals.



6. Pay annual certification and complete 3-year compliance





Examples of Pollinator Habitat















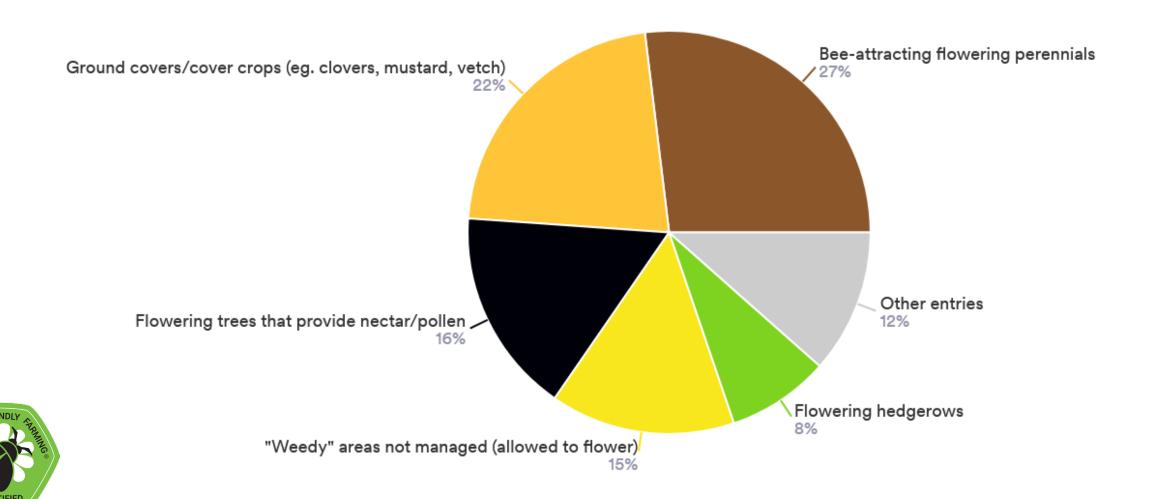








Type of Forage





How to get Certified

- Plant pollinator habitat and implement IPM!
- Visit BeeFriendlyFarming.org to see the criteria and find the application link





How to get Certified

- Fill out the application (30- 45 minutes) and pay annual fee of \$45/ farm
- Decision Sent within 4-6 weeks





How to get Certified

- If necessary, BFF team members will reach out for follow up information
- Maintain certification through compliance (every 3 years)



Use CASP BFF Report

Expedite the Application Process!

Confirmation and Payment

- · Number of distinct properties (follow the onscreen directions)
- How you heard about BFF
- Confirmations

Bee Friendly Farming Certification has five requirements:

- Offer forage providing good nutrition for bees on at least 3% of land. Forage can be temporary, including crops and cover crops.
- Provide bloom of different flowering plants throughout the growing season, especially in early spring and late autumn. There is no minimum land coverage for seasonal bloom.
- If not inhibited by government mandated water restrictions, offer clean water for bees.
- 4. Provide habitat for nesting through features such as hedgerows, natural brush, buffer strips, or bare ground.
- 5. Practice Integrated Pest Management (IPM); reduce or eliminate the use of chemicals.

Full confidentiality is maintained for all information provided and generated this report. Individual assessment results have not been shared with other individuals or organizations.

Go to https://www.pollinator.org/bff/bff-us to find out more about Pollinator Partnership.

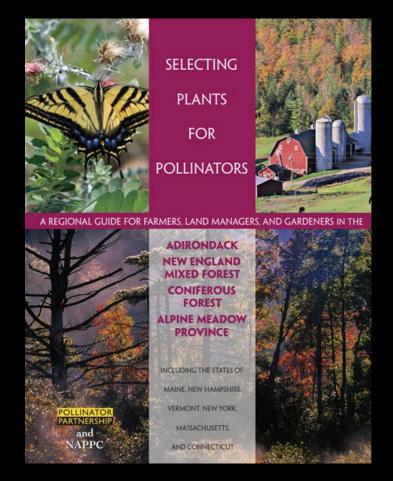
Summary

Location	Acres	Eligibility Status	BFF 1	BFF 2	BFF 3	BFF 4	BFF 5
West Orchard	200	Eligible	Yes	Yes	Yes	Yes	Yes
Sum of Eligible Acres	200						



Resources Available

Ecoregional Planting Guides https://www.pollinator.org/guides



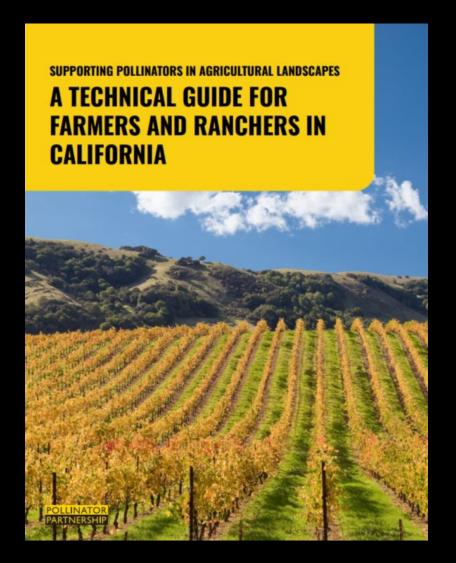
Botanical Name	Common Name	Color	Height	Flower Season	Sun	Soil	Visitation by Pollinator	
Trees & Shrubs								
Fallugia paradoxa	Apache plume	white	3-6'	Apr-Oct	full sun	gravelly alluvium	bees, flies, butterflies, moths	
Fendlera rupicola	cliff fendlerbush	white	3-6'	Apr-Oct	full sun	rocky	bees, flies, butterflies, moths	
Dasiphora fruticosa ssp. floribunda	shrubby cinquefoil	yellow	2-4'	Jun-Jul	full sun	clay to sandy loam	bees, flies, butterflies	
Prunus virginiana	chokecherry	white	6-30'	May-Jun	full sun to partial shade	various	bees, flies, butterflies	
Robinia neomexicana	New Mexico locust	rose-pink	10-30'	Apr-Jul	full sun to full shade	clay to sandy loam	bees, bumblebees	
Rosa woodsii	Woods' rose	rose-pink	2-3'	Jun-Aug	full sun to full shade	clay loam to sandy loam	bees, flies, butterflies	
			Pere	ennial Flowe	rs			
Achillea millefolium	common yarrow	white	6-12"	May-Aug	full sun	various	bees, flies, butterflies, moths	
Agastache pallidiflora	Bill Williams Mountain giant hyssop	white to deep rose- purple	12-30"	Jul-Oct	partial to full shade	loamy	butterflies, bees, hummingbirds	
Calypso bulbosa	fairy slipper	purple to magenta	3-8"	May-Aug	full shade	humus	bumblebees	





Resources Available

https://www.pollinator.org/bff





How is the certification verified?

The dedicated BFF Team examines each farm through:

- on-site photos
- maps
- records
- information delivered by third- party partners such as the California Almond Stewardship Platform (CASP) or LIVE Certified
- a nearly 50-question application.

Often this process leads to follow-up interviews or requests for clarification.

Before any certification is awarded, all criteria must be verified.





Coming in 2023: Third - Party Verification Option for Bee Friendly Farming





How does this benefit you?

These practices provide numerous agronomic, ecological, and social benefits

- Habitat and cover crops improve soil health, water retention, and carbon sequestration
- IPM reduces inputs and pest pressure
- Meet sustainability requirements from buyers
- Be a part of the industry wide movement
- Buyers can use the BFF Logo on packaging and marketing material





Hosted by Pollinator Partnership with support from Toyota Motor North America

This short 45-minute webinar describes the benefits and steps to become a Bee Friendly Farming Certified farm, or chard, or ranch. Sign up today!





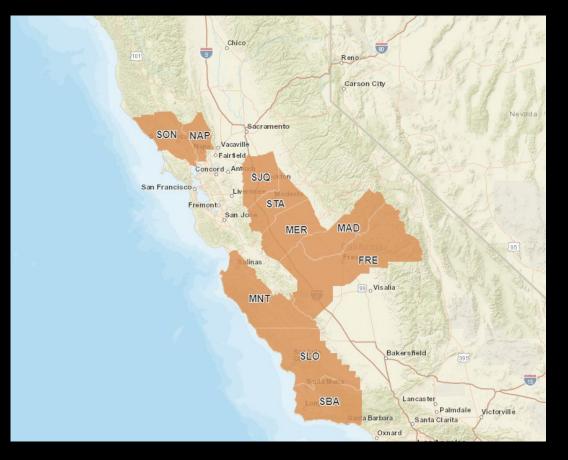
Register today!
Contact miles@pollinator.org for more information





Coming in 2023: NRCS Regional Conservation Partnership Program

- Increase capacity of California agricultural lands to provide habitat, forage, and other support to wild and managed pollinators
- Creation of pollinator corridors through collaboration among neighboring farms/ranches
- \$1.2 million will go directly to farmers to implement this program









Almond Grants and Incentive Programs

12/8/22 / Jesse Roseman



Incentives and Almond Orchard 2025 Goals

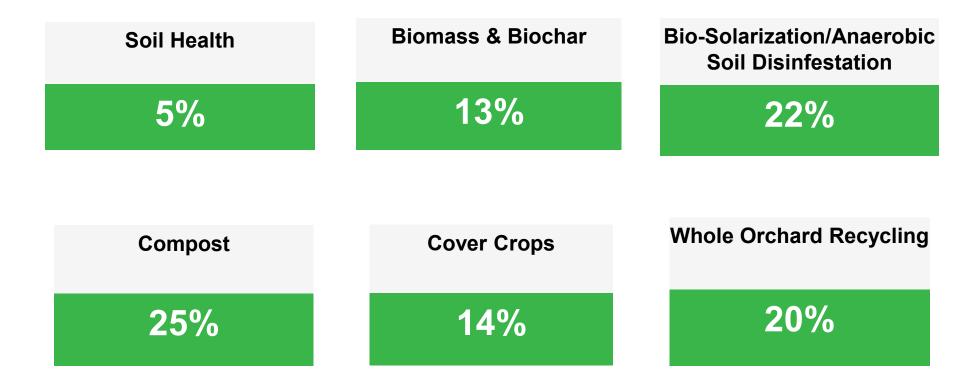
- Agencies have a wide range of incentives available for growers to adopt new practices
- Many incentivized practices support achievement of 2025 Goals
 - Irrigation and nutrition management improvements
 - Low-dust harvesters
 - Whole orchard recycling
 - Mating disruption
 - Groundwater recharge
- Each agency has different guidelines, priorities, review processes, and payment rates

INCENTIVES OFFERED BY AGENCIES IN THESE CATEGORIES						
<u>2025 Goal</u>	NRCS	CDFA	SJV Air District			
Water						
Harvest Dust						
Zero Waste						
Pest Management						



ABC Soil Health Research Investments

- ABC investments for over 40 years
- 1981- July 2020: \$2,991,464
- 15 primary research projects
- 60% of funding invested into research conducted between 2015 2020

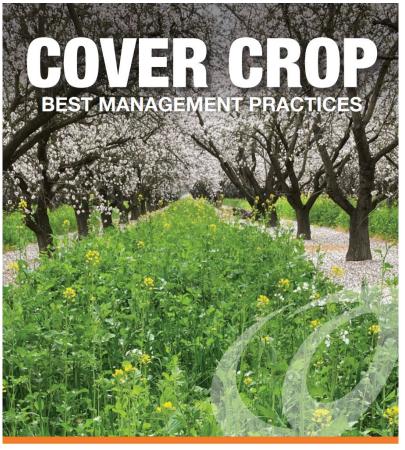


Cover Crops

Benefits

- Enhance pollinator forage
- Enhance beneficial insects
- Suppress pest nematodes
- Improve water infiltration
- Improve winter orchard access
- Reduce compaction and erosion
- Manage salinity and sodicity
- Reduce N losses; increase soil N
- Support soil biology
- Increase soil carbon and organic matter
- Manage weeds

Resources









- CDFA
 - Healthy Soils Program
 - Quantifiable greenhouse gas (GHG) reductions through soil carbon sequestration
- NRCS
 - Environmental Quality Incentives Program (EQIP)
 - Conservation
 Stewardship Program
 (CSP)
 - Conservation Incentive Contracts (CIC)
 - Regional Conservation Partnership Programs (RCPP)
 - Conservation Innovation Grant (CIG)



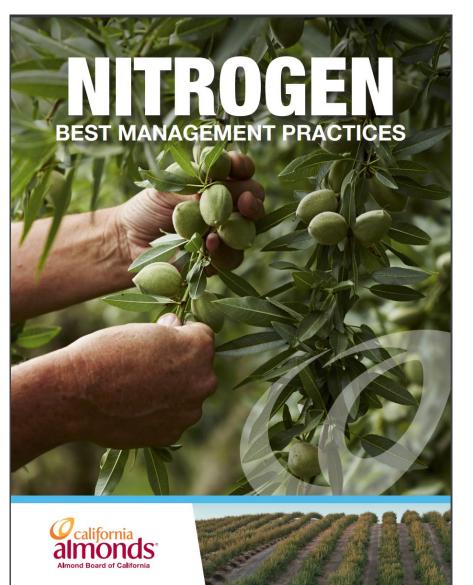
Compost

Benefits

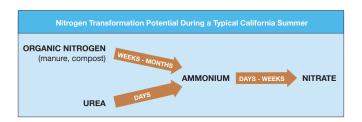
- Some N, P, K as well as micro-nutrients
- Soil Organic Matter
- Improve soil composition and structure
- Water holding capacity

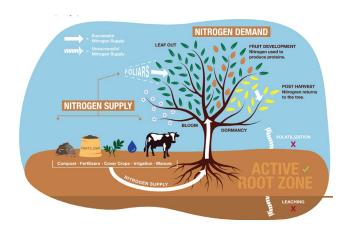


Resources



- CDFA
 - Healthy Soils Program
- NRCS
 - EQIP, CSP, CIC, RCPP



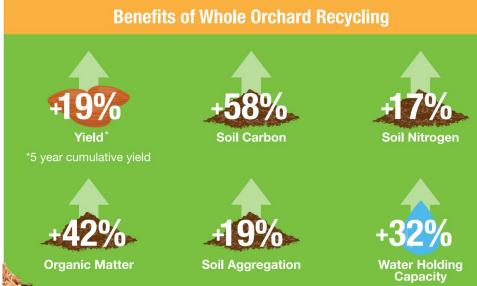


Whole Orchard Recycling

Benefits

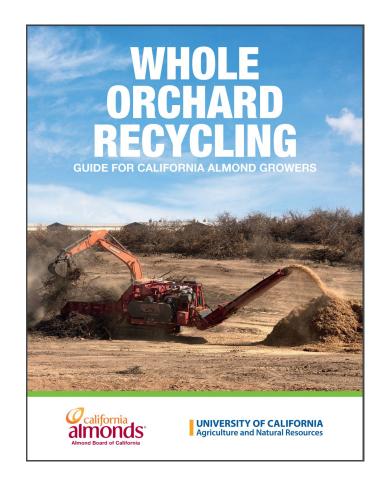
 Addresses the phaseout and eventual loss of ag burning





 Website: https://orchardrecycling.ucdavis.edu/

Resources



- CDFA
 - Healthy Soils Program
- NRCS
 - EQIP, CSP, CIC, RCPP
- SJV Air District
 - Alternatives toOpen Ag Burning

Groundwater Recharge

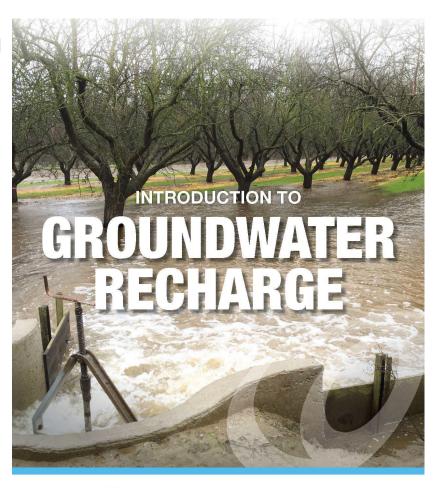
Benefits

- Address a future of declining groundwater quality, quantity, and availability
- Improve overdrafted aquifers, increase storage, and decrease pumping costs
- Improve salt management and mitigate subsidence
- SGMA compliance
- Secure reliable, sufficient, and drought resilient groundwater supplies

Topics covered

- What is Groundwater Recharge?
- Supporting research
- Key questions- is recharge a fit?
- Recharge methods
- Grower examples

Resources







- NRCS
 - Pilot projects in Madera County, Chowchilla Water District, Tulare Irrigation District and Delano-Earlimart Irrigation District are eligible for this pilot program
 - Expansion planned
- GSAs/Irrigation Districts
 - Regionally available or In development

Engine Replacement

Benefits

- Variety of treatments intended to reduce agricultural air pollution
- Improving diesel exhaust emissions is accomplished by replacing with new "like" equipment powered by the cleanest emissionscertified nonroad diesel engines available.
- Replaced equipment must be a Tier 0, 1 or 2
- Must purchase a Tier 4

No Industry Resources Available

- NRCS
 - EQIP, CSP
- SJV Air District
 - Ag Tractor Replacement (Self-Propelled)
 - Ag Pump Repower
 - Shuttle Trucks, Sweepers,
 Shakers, Self-Propelled
 Harvesters, Brush
 Shredder, Sprayers
- Sacramento Valley Air Districts
 - See their engine replacement programs

Low-dust Harvesters

Benefits

- Proposals for using "low dust" harvesters within any PM designated nonattainment area of California will receive a higher priority
- Newer harvesters on average reduce dust (PM10 and PM2.5) around 50%

Resources





- NRCS
 - EQIP, CSP
- SJV Air District
 - Low Dust Harvesting Equipment

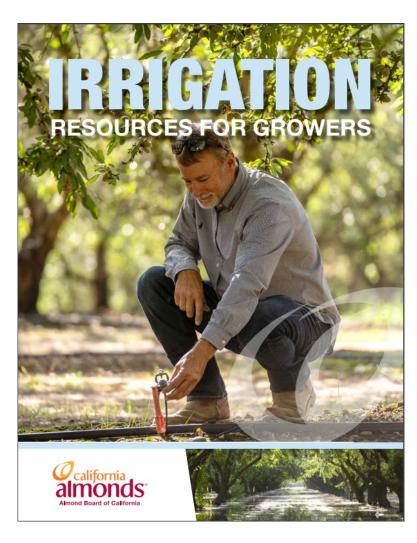


Irrigation and Nutrition

Benefits

- Irrigation System Improvements, conservation practices to improve irrigation water use efficiency and protect water quality.
 - Irrigation system evaluations and improved systems or system components as indicated
- Irrigation Water
 Management, optimize
 irrigation water use and
 conservation objectives by
 careful management of
 timing and amount of
 irrigation water applied
 - Weather stations
 - Flow meters
 - Soil moisture management and sensing

Resources



- CDFA
 - State Water Efficiency & Enhancement Program (SWEEP)
- NRCS
 - EQIP, CSP, CIC

Integrated Pest Management and Pollinator Support

Benefits

- Adoption of a comprehensive IPM, including range of prevention, avoidance, monitoring, and suppression activities
- Non-chemical pest control options (e.g. mating disruption)
- Mulch and cover cropping for weed control
- Plants to support pollinators & beneficial insects

Resources

UC IPM Pest Management Guidelines - ALMOND

Conservation Practice 595 Conservation Pest Management System





Documentation for use of Integrated Pest Management (IPM) Program including Mating Disruption for Navel Orangeworm (NOW) Control in Almonds

> All guidance based on University of California Integrated Pest Management Program Guidance

NRCS does not provide pest management recommendations. All NRCS Pest Management Conservation System assistance is guided by the University of California Integrated Pest Management Program.

Please refer to UC IPM guidance (Almond / Agriculture: Pest Management Guidelines / UC Statewide IPM Program (UC IPM) (ucanr.edu)) for information to guide year round IPM in almonds, including information about chemical suppression methods (e.g. pesticide use) and management of mode of action and product choices to avoid development of pest resistance.

It is the responsibility of the producer to be aware of county and state regulations regarding pesticide application and to engage the services of a licensed pest management professional as

This document outlines core elements of an IPM based approach to Navel Orangeworm control in almond found here: Navel Orangeworm / Almond / Agriculture: Pest Management Guidelines / UC Statewide IPM Program (UC IPM) (ucanr.edu), See the above link or consult a UC IPM specialist for additional information. This practice may also be used to address a different pest/disease issue, please ask for assistance to prepare documentation for use of this practice with a different

By providing the information requested in these documents, you will allow an NRCS planner to include Pest Management Conservation System (Conservation Practice 595) in your Conservation Plan, and to verify that you have completed the core elements of an IPM program to control NOW in an almond orchard, as agreed upon to receive financial assistance via Farm Bill Programs including Environmental Quality Incentives Program (EQIP) and Conservation Stewardship Program (CSP)

For questions, please contact your NRCS Conservation Planner: (NRCS STAFF WORKING DIRECTLY WITH THE CUSTOMER WILL INSERT THEIR CONTACT INFORMATION HERE, I ALSO THINK WE SHOULD INCLUDE THE AREA LEVEL LEAD FOR THE PRACTICE)

> Thank you for your stewardship efforts! Implementation Requirements for NRCS Conservation Practice 595

> > (8/17) Almond Year-Round IPM Program Annual

- NRCS
 - EQIP, CSP
- CDFA
 - Pollinator Habitat Program
 - Block Grants



Contact Jesse Roseman, jroseman@almondboard.com