

Bringing Sustainability from the Orchard to the Consumer

Molly Spence, Director of North America, Almond Board of California SIAL – April 13, 2016

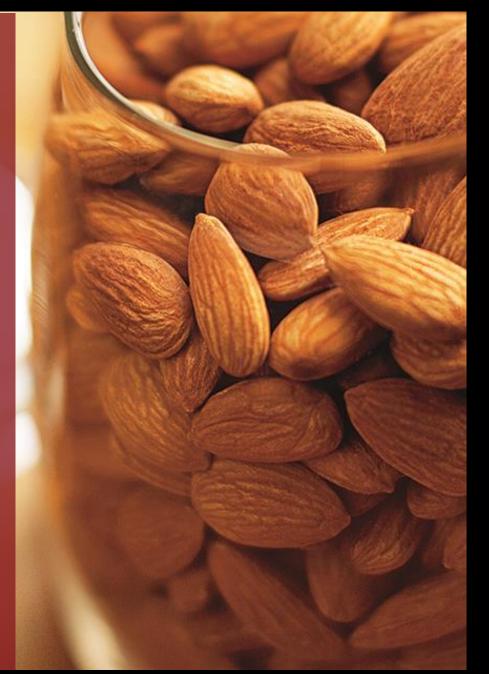


TODAY

- Background
 - -About the California Almond Industry
 - -Definition of sustainability
 - -Research program
- Sustainability in the Orchards
 - -CASP Program
 - -Lifecycle Assessment
 - -Water Footprint Research
 - -Evolving Best Practices
- Bringing Sustainability to Consumers
 - Reactive & Proactive Communication
 - Consumer Insights

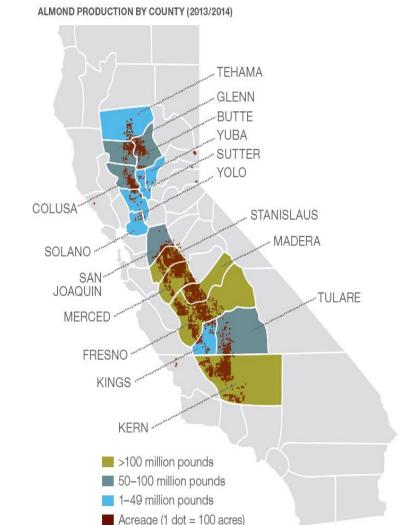


Background



The Scope of the California Almond Industry

- Spanning 500 miles (804 km)
- 6,800 growers and 105 handler/processors
- 100% of U.S. production
- 83% of worldwide production
- Almond Board of California is a growerenacted "Federal Marketing Order" established in 1950
- USDA provides oversight
- Board and Committees all volunteers
- Funded by assessment \$.03/lb and provides
 - Global Market Development
 - Scientific Research
 - Industry Education
 - Quality and Food Safety
 - Regulatory Issues



Sources:

- *USDA National Agricultural Statistics Service, Pacific Region (NASS/PR)
- **U.S. Department of Commerce, Foreign Trade Statistics
- ***Agricultural Issues Center, University of California



Why California?

- California is the most productive almond growing region in the world
 - Rich soil, water availability and infrastructure, innovative technology and research
- California is known for some of the highest standards for environmental, food, and worker safety in the world

GLOBAL MEDITERRANEAN CLIMATES:

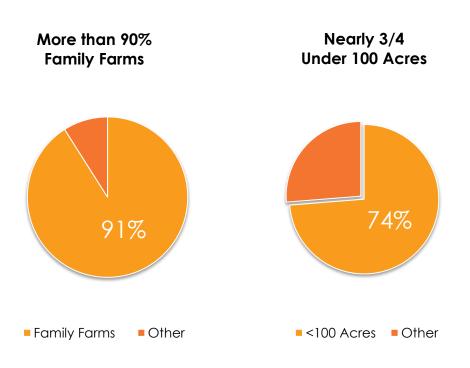


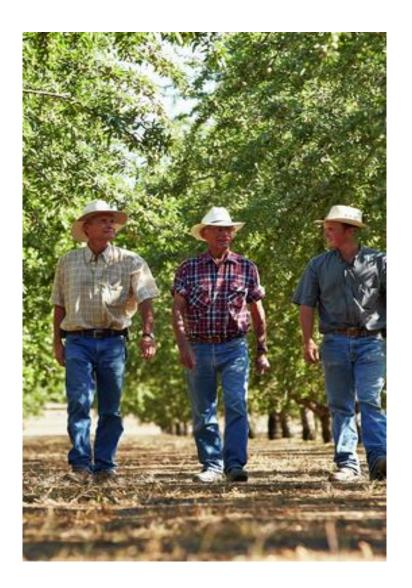
The Mediterranean climate is characterized by warm to hot, dry summers and mild to cool, wet winters



Family Farms

More than 6,800 total farms



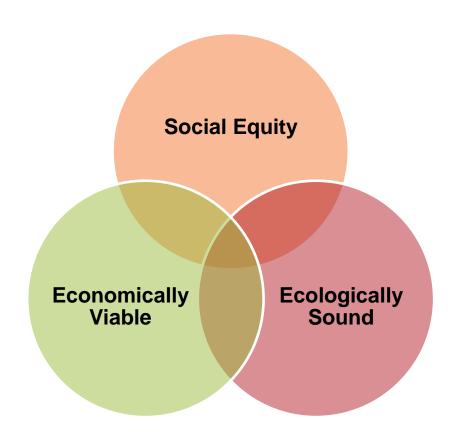




The Almond Board of California's Definition of Sustainability

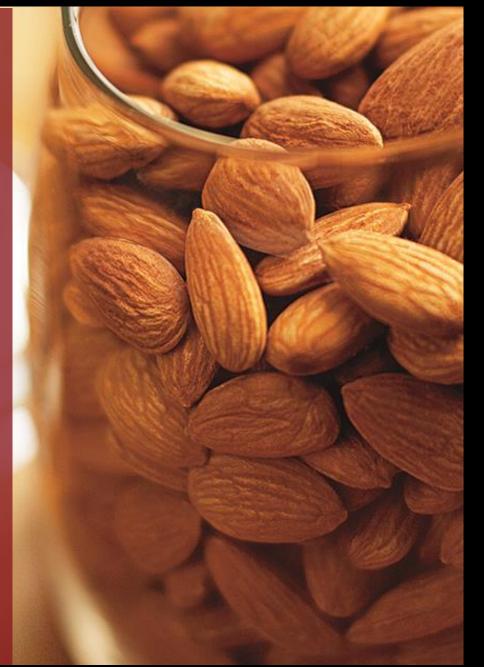
Sustainable almond farming utilizes production practices that are economically viable and are based upon scientific research, common sense and a respect for the environment, neighbors and employees.

The result is a plentiful, healthy and safe food product.



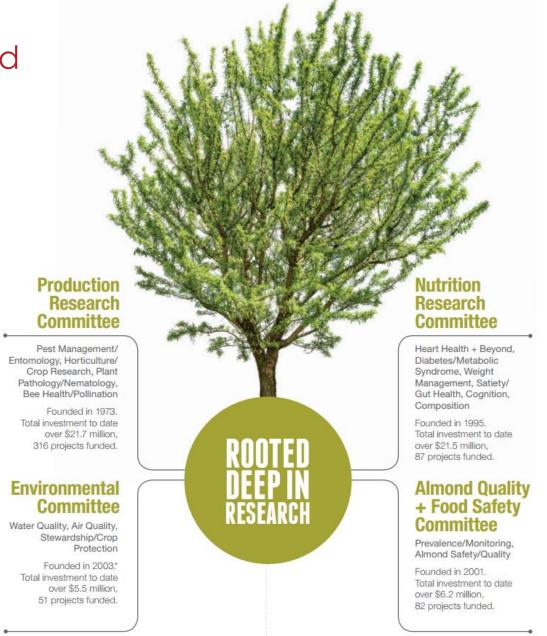


Sustainability in the Orchards: Research & Programming



Research at the Almond Board...

- ...is the foundation for continuous improvements in growing almonds productively, safely, and in a way that is environmentally responsible.
- Through ABC, California's almond community has been investing in research on topics related to almonds' sustainability since 1973 with a total investment of more than \$50 million to date.





Almond Industry SustainabilityRelated Research

- Consistently funding and executing initiatives since 1973
- Info on specific initiatives is at almondsustainabilit y.org





California Almond Sustainability Program (CASP)

- CASP encourages almond grower and handler selfassessment surveys to track adoption of responsible farming practices
- Current CASP modules (with more in development):
 - Efficient irrigation management
 - Nutrient management
 - Air quality
 - Groundwater quality
 - Energy efficiency
 - Ecosystem
 - Financial management
 - Pest management





CASP Reporting/ Use of Data

2014 First Report Released

- Based on first 4 years
- Statistical Analysis re representativeness
- Calls out strengths and areas for improvement based on value analysis (which practices have widest impacts used/not used)
- Next report 2019? See what has changed
- No Third Party Verification to date because of cost
- Analysis of data used to develop outreach and education programs to growers e.g. in irrigation management (continuum)
- Analysis of data used to communicate to additional consumer, regulatory & trade







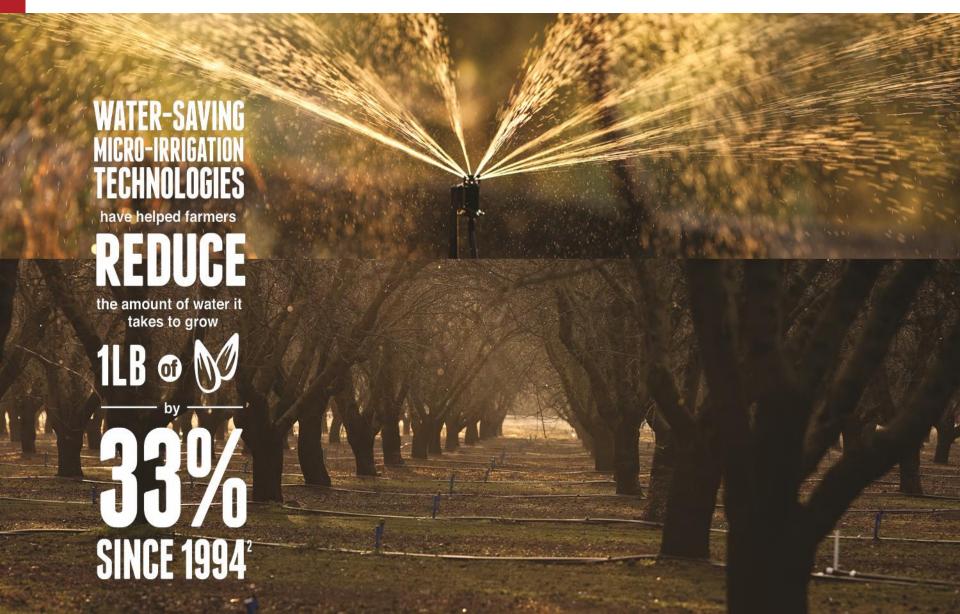
Lifecycle Assessment (LCA)

- Study funded by the Almond Board of California and the CA Department of Food and Agriculture Specialty Crops Block Grant Program
- Two studies have been published to date based on almond LCA research
- At baseline, our industry is offsetting about 50% of its carbon
- We're now researching ways to further this via improved management of inputs and outputs





California Almond Water Footprint Research Underway



Always-Evolving Best Practices

- Good Agricultural Practices (GAPs)
- Good Management Practices (GMPs)
- Bee Management Practices (BMPs)





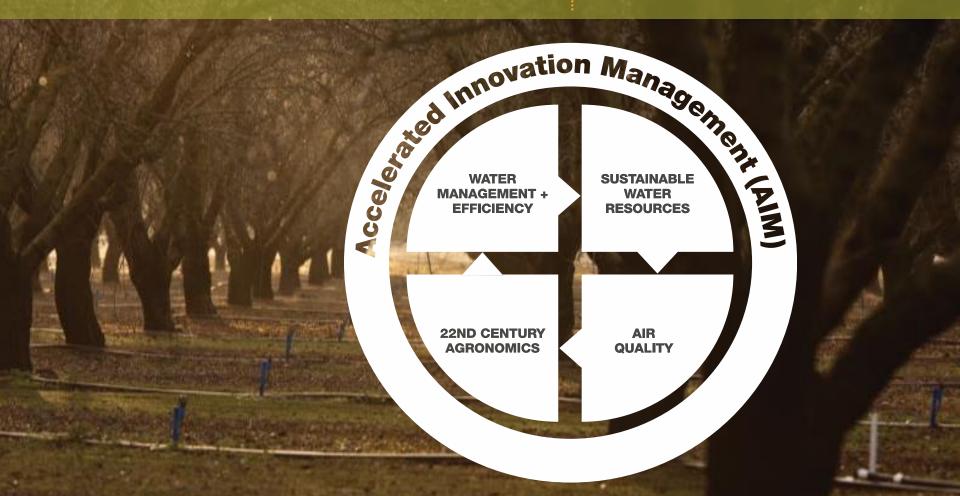






ALMOND ORCHARD OF THE FUTURE

AIM Initiatives: Where can the almond community and ABC make a difference?

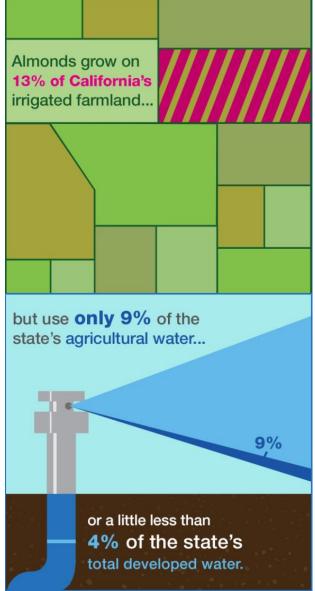


Communicating
Sustainability to
Our Audiences



In the Heat of California's Drought: Communicating Simple Facts



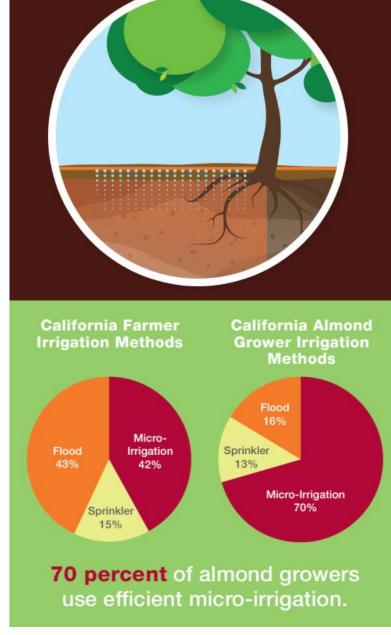




Other communication during the drought...

California Almond growers are lead adopters in efficient irrigation technologies.

- Through Almond Board research programs, almond farmers have been funding water efficiency research since 1982 with over 90 projects funded to date.
- Over the past 20 years, almond growers have improved their water use efficiency by 33%, producing more crop per drop.
- 83% of growers practice demand-based irrigation using a combination of weather data, tree demand data, and/or soil moisture data
- 70% of almond orchards use micro-irrigation, decreasing water runoff, applying water directly in the root zone, and allowing for precise timing and rate of irrigation.





Social Media



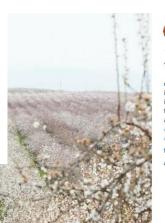


californiaalmonds A soft snow of almond blooms, makes us feel like we're living in a dream. Don't forget to share your almond blossom photos and videos. #californiadreaming #bloom

#almondblossoms #almonds

imcarlosgiraldo i respect the effort and passion! Im always looking to associate and work with other successful entrepreneurs!







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Food Professional Section, Newsroom & Blog on Almonds.com







Almond Recipe

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BLOG

Honey Bees Use 'Bee Pastures' Planted by Almond Farmers As Almond Pollination Winds Down

Posted March 23rd, 2016

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By the time petals fall from almond blossoms, the nectar and pollen that honey bees collect and spread from flower to flower to pollinate the crop are gone. So as the almond bloom draws to a close, beekeepers arrive to remove their hives from the orchards, often moving their bees to pollinate other crops. But in the meantime, honey bees look outside of almond orchards for alternate food sources.







The California Almond Industry Commits to Next-Generation Growing Solutions

California is one of only a few places on earth with the Mediterranean climate ideal for growing almonds and more than 400 other crops, including fruits, nuts and vegetables. Like almonds, much of California's agriculture is not grown anywhere else in the United States. According to the USDA, California produces 99 percent of the nation's almonds, artichokes, dates, figs, raisins, kiwifruit, olives, cling peaches, pistachios, dried plums, pomegranates, sweet rice and walnuts. These specialty crops thrive in California's climate.¹



For California almond farmers, the use of sustainable farming practices hits close to home.² More than 90 percent of California almond farms are family farms — many owned by third and fourth generation family farmers who live on the land and know first-hand the importance of sustaining it for their children, grandchildren and future generations to come.³ In addition to providing a safe and stable supply of almonds, California's community of more than 6,800 almond growers are committed to using sustainable agricultural practices that respect the environment, are economically viable and protect their local communities in an effort to be as resourceful as possible.²



Recent Announcements

- HONEY BEES USE 'BEE PASTURES' PLANTED BY ALMOND FARMERS AS ALMOND POLLINATION WINDS DOWN
- ALMOND FARMERS RECOGNIZED FOR INNOVATION, LEADERSHIP
- ALMOND BOARD OF CALIFORNIA EMBRACES LEADERSHIP ROLE AND PLANS FOR THE FUTURE
- A PARTNERSHIP AS SWEET AS HONEY
- WHOLE ORCHARD RECYCLING COULD BENEFIT SOIL QUALITY AND PROVIDE ADDITIONAL CARBON SEQUESTRATION
- MODESTO ALMOND FARMER BANKS LOCAL STORMWATER
- FOCUS AT ANNUAL ALMOND CONFERENCE IS CLEAR: ACCELERATED INNOVATION
- GROUNDWATER RECHARGE: NOTHING NEW FOR FRESNO COUNTY ALMOND GROWER
- ALMOND INDUSTRY LAUNCHES STRATEGIC PLAN TO ACCELERATE INNOVATION AND SUSTAINABILITY
- CAN GROWING ALMONDS FIGHT CLIMATE CHANGE?
- ALMOND INDUSTRY AND SUSTAINABLE CONSERVATION PARTNERSHIP EXPLORES ALMOND ACREAGE GROUNDWATER RECHARGE
- ALMOND INDUSTRY INNOVATION IN ACTION
- USDA FUNDS NEW PILOT PROJECT TO HELP ALMOND GROWERS GAIN GREATER ACCESS TO GREENHOUSE GAS MARKETS



This Just In: Industry Award Nominations for Our Communications Efforts....



2016 SABRE Awards North America finalists

The 2016 North America SABRE Awards shortlist includes around 300 campaigns, selected from among more than 2,000 entries in this year's competition, which recognizes Superior Achievement in Branding, Reputation and Engagement. The campaigns were evaluated by a jury of more than 40 industry leaders.



SABRE Awards North America

Awards Ceremony





Talking with Our Consumer Target, Savvy Snackers





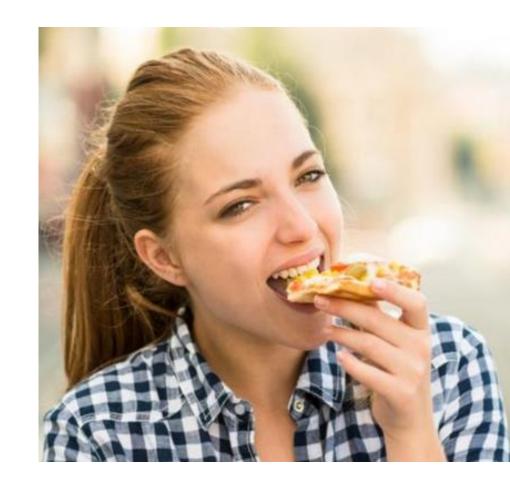
For many Savvy Snackers, almonds are the go-to snack.

66 Almonds are just about the healthiest thing you can eat. 99

66 Almonds are my favorite nut. 99

661 don't look forward to eating carrots; I look forward to eating almonds! 99

66 Almonds are a snack you can trust. So many things are good for you one day, and the next day they're not. With almonds, you know they're healthy.99





However, most have very little understanding of how almonds are grown.

Without knowing anything about how almonds are grown, negative stories about almonds (and specifically almonds' water use) can **erode their confidence** in choosing to snack on almonds.

661 don't know if I'd stop eating almonds, but I might not feel as good about it.99





Even basic information about how and where almonds are grown is seen in a positive light.

661 had no idea how big and important the almond industry is to the economy. 99

66It's cool that we [the U.S.] are growing a product that so many people around the world are eating.99

661 really like that they use all the parts of the almond so that there's very little waste.99



Our opportunity...

- Savvy snackers love almonds.
- But they know very little about how almonds are grown.
- So when they hear something bad about how almonds are grown, it erodes their good feelings.
- When they hear facts we may think are commonplace, they are surprised and pleased, and feel even better about eating almonds.
- We have the opportunity not only to work to continually improve our industry's sustainability for the future, but also to more pointedly share what's currently happening.

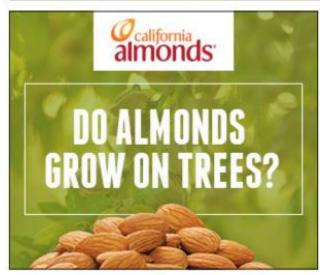


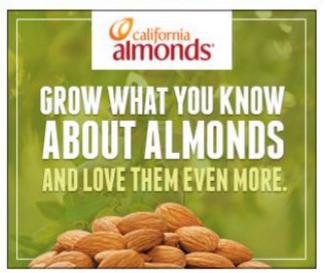


New Campaign: Grow What You Know About Almonds.



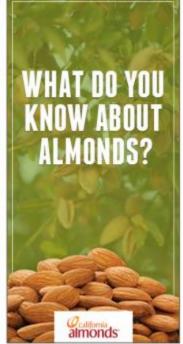










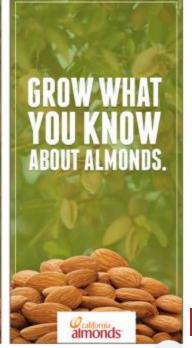








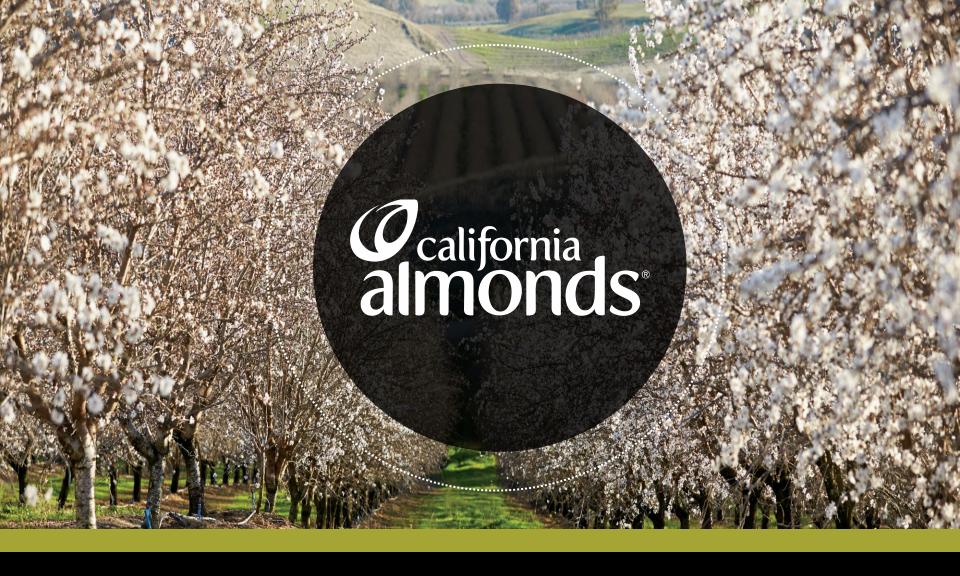












THANK YOU!

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