



Managing California's Most Precious Resources

Spencer Cooper

Almond Board of California (ABC)



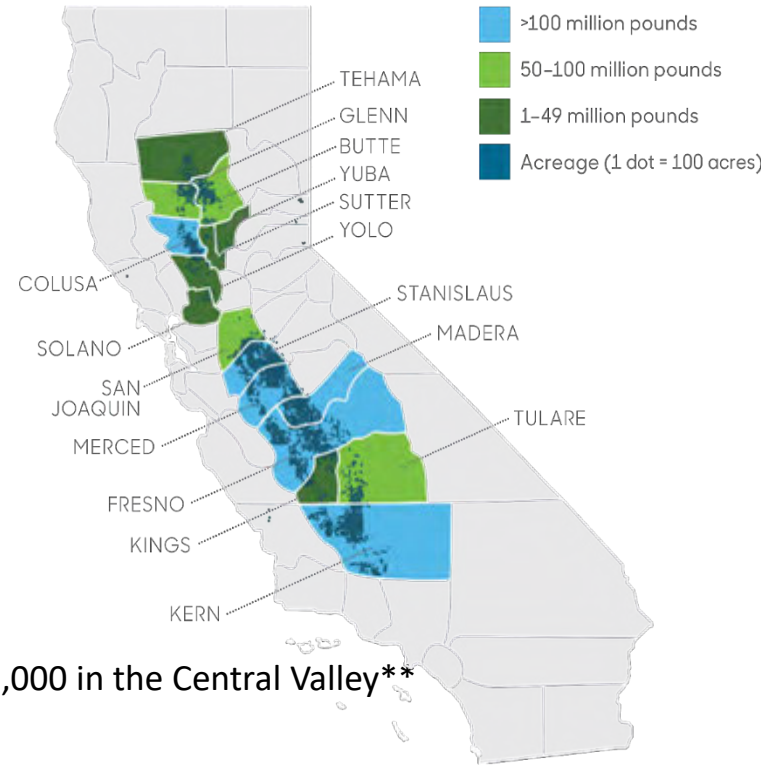
- Grower-enacted “Federal Marketing Order” established in 1950
 - Represents growers and handlers (processors)
 - “Quasi governmental”
 - Non-profit organization
- Under USDA supervision
- Funded by assessment \$.04/lb
- Does not sell, set, track, or quote almond prices
- Broad-based program
 - Global Market Development
 - Scientific Research
 - Industry Education
 - Quality and Food Safety
 - Regulatory Issues



**53 employees based n Modesto,
New Delhi, London, Shanghai,
Seattle, Washington DC**

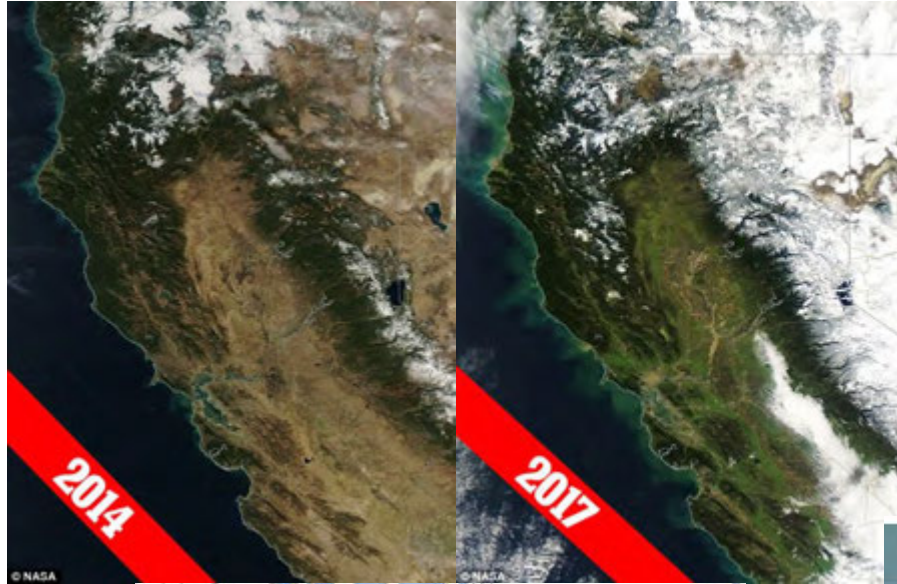
The Scope of the California Almond Industry

- Spanning 500 miles (804 km)
- 6,800 growers
- 100 handler/processors
- Production
 - Virtually 100% of U.S. production
 - 68% export; 32% domestic
 - Over 80% of worldwide production
- Exports by value
 - Top California agricultural export
 - Top U.S. specialty crop export
- Almond industry generates about 104,000 jobs statewide; 97,000 in the Central Valley**
 - \$21 billion in total economic output
 - About \$11 billion to the state's GDP
- Almond acreage = 16% of CA irrigated land
- Almond acreage = 11% of AG irrigation



Sources:
*USDA National Agricultural Statistics Service, Pacific Region (NASS/PR)
**U.S. Department of Commerce, Foreign Trade Statistics

California, Water and Almonds



EXPLAINER ANSWERS TO YOUR QUESTIONS ABOUT THE NEWS. JULY 10 2013 2:21 PM

The C-Free Diet

If we didn't have California, what would we eat?

By Brian Palmer

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California produces a sizable majority of many American fruits, vegetables, and nuts, including 99 percent of artichokes

Photo by Darin Cammis/Look/Reuters

Almonds are unique in so many ways, except one:
the amount of water they use.

Most fruit and nut trees in California use about the same amount of water as almonds



Stacie Lary Schenkels et al. Understanding our Orchard's Water Requirements. University of California, Division of Agriculture and Natural Resources. Publication 0119. Fall, 2010.



More Crop Per Drop

- California Almond farmers are leading adopters of efficient irrigation technologies.
- Over the past 20 years, almond farmers have improved their water use efficiency by 33%, producing more crop per drop.¹
- 87% of farmers practice demand-based irrigation instead of using a fixed schedule.²
- Almond farmers use efficient micro sprinkler or drip irrigation at nearly 2 times the rate of farmers statewide.³



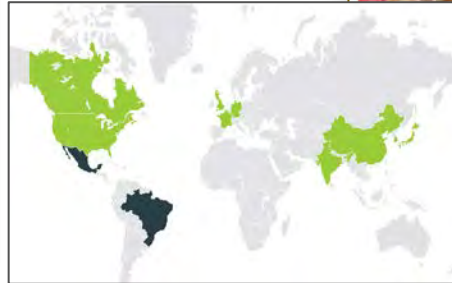
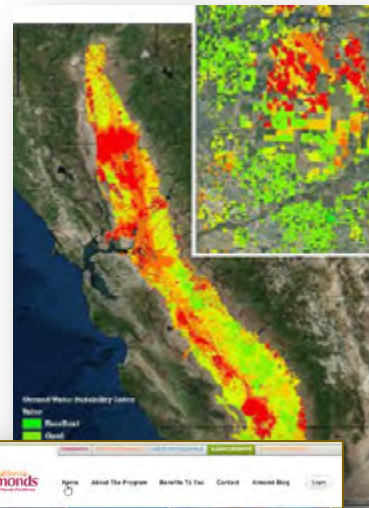
¹ University of California. UC Drought Management. Feb. 2010. Food and Agriculture Organization of the UN. FAO Irrigation and Drainage Paper 66. 2012. Almond Board of California. Almond Almanac 1990-94, 2000-14

² California Almond Sustainability Program. Aug. 2017.

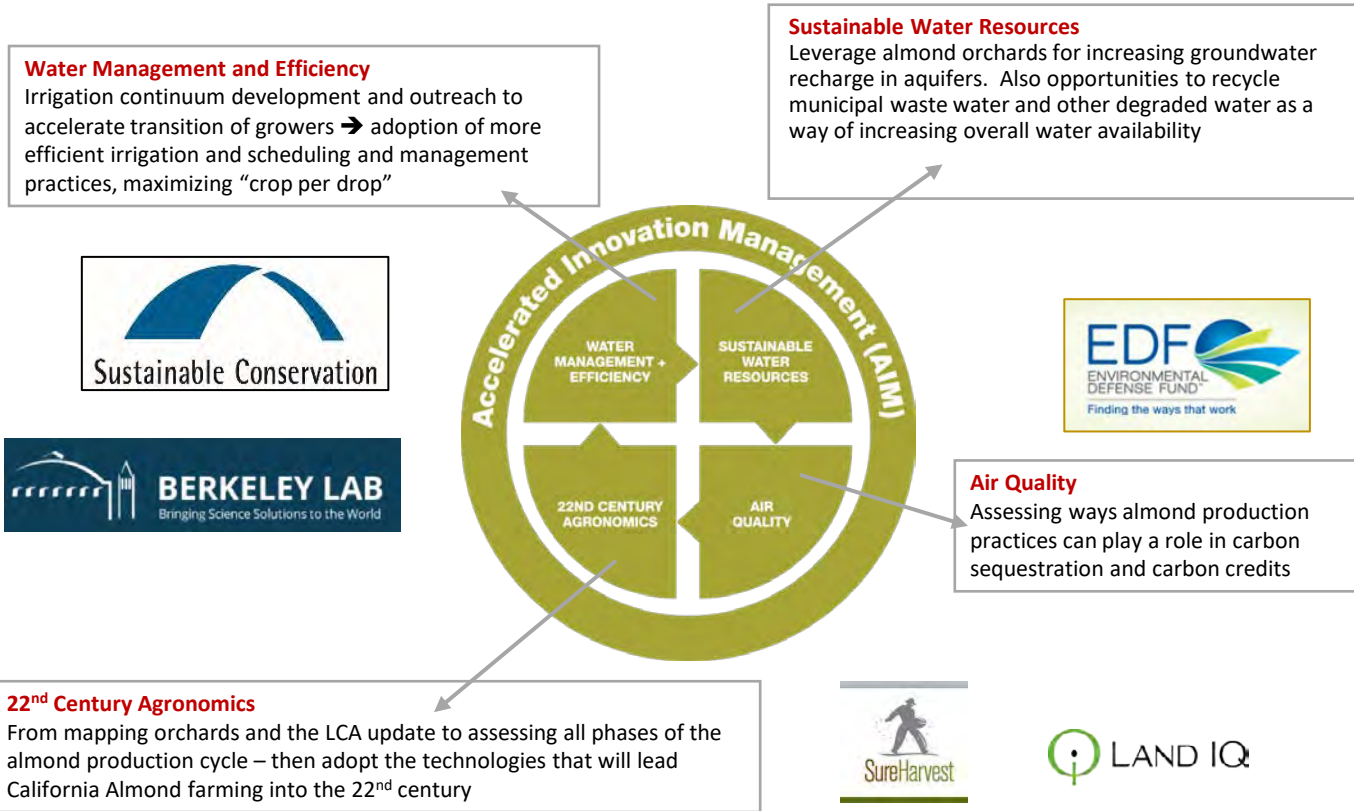
³ California Department of Water Resources. California Water Plan Update 2013: Volume 3, Chapter 2.

Leaning Forward into a Challenging Future

- Anticipated **20% increase** in production by 2020
- Challenges for **agricultural resources** never higher

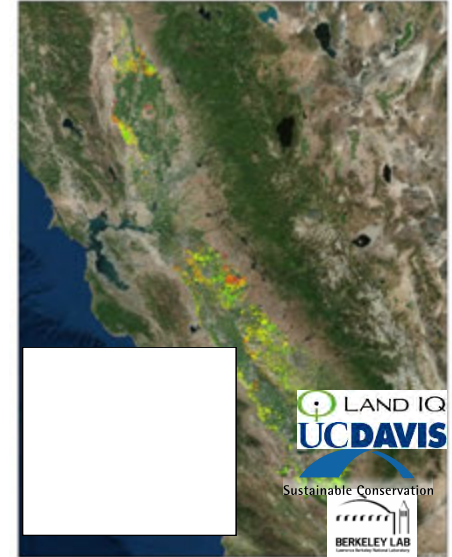


Accelerated Innovation Management (AIM)



California's Sustainable Groundwater Solution

- Over 675,000 acres of California almond orchards have moderately good or better suitability for groundwater recharge.¹



¹ Land IQ. Groundwater Recharge Suitability Analysis. Nov. 2015.



Thank You

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