The California Strawberry Industry: current trends and future prospects

Gerald J. Holmes

Director







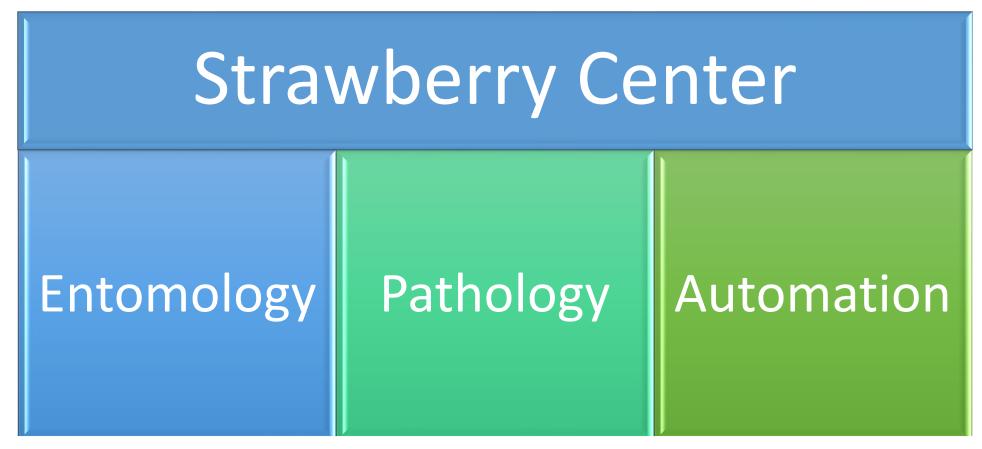


CAL POLY

SAN LUIS OBISPO



Mission: Increase the sustainability of California Strawberry growing through research and education that is aligned with grower needs.







Strawberry Center CAL POLY Organization Structure College of Agriculture, Food & Environmental Sciences CALIFORNIA STRAW©ERRY COMMISSION **Scott Steinmaus Gerald Holmes** PLSC Dept. Head Director Pathology Entomology Automation Shashika Sarah Zukoff John Lin **Director of Production** Entomologist Hewavitharana Operations Automation Plant Pathologist **Alison Stevens** Drew Mojtaba Ahmadi Abbas Atefi **Kyle Blauer** Jose Vivian Longacre **Caleb Fink** Will Kramer Julie Tillman Summerfield Administrative Alvarado Rojas Field Research Senior Senior Automation Lab Technician Automation Acct & Comm Farm Manager Coordinator Manager Automation Automation Engineer Research (part time) Engineer Coordinator Associate Engineer Engineer

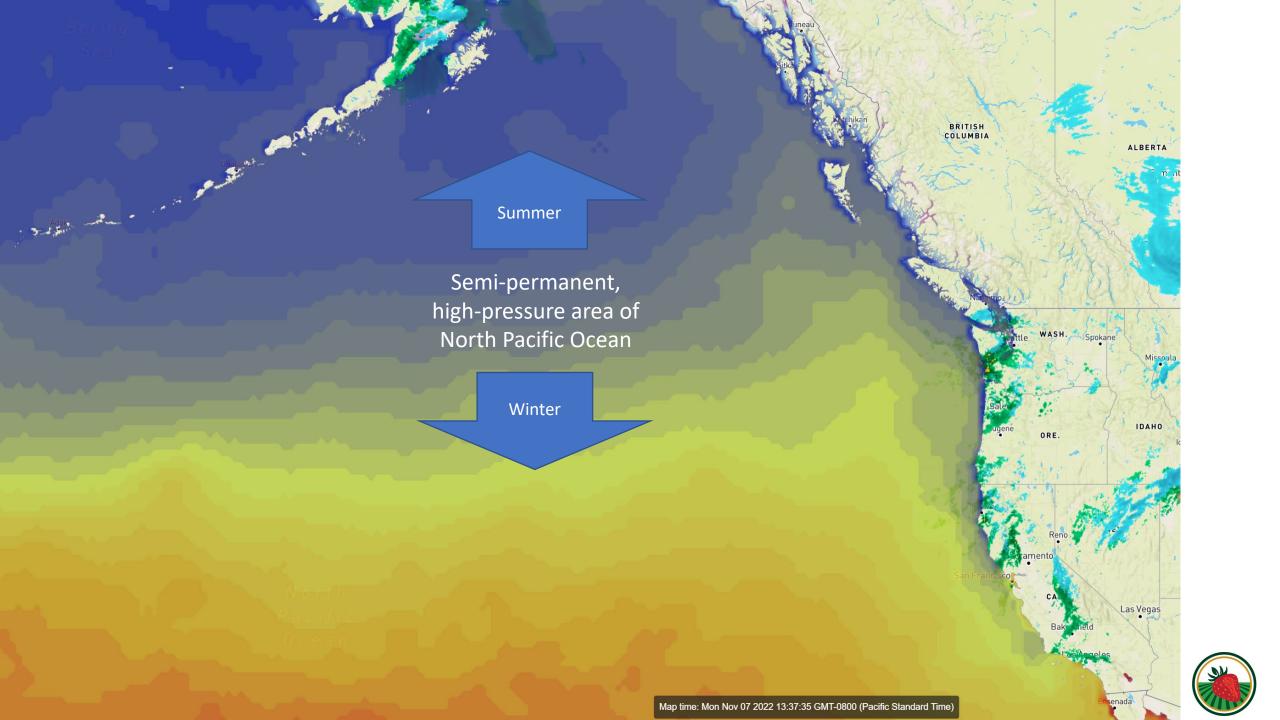


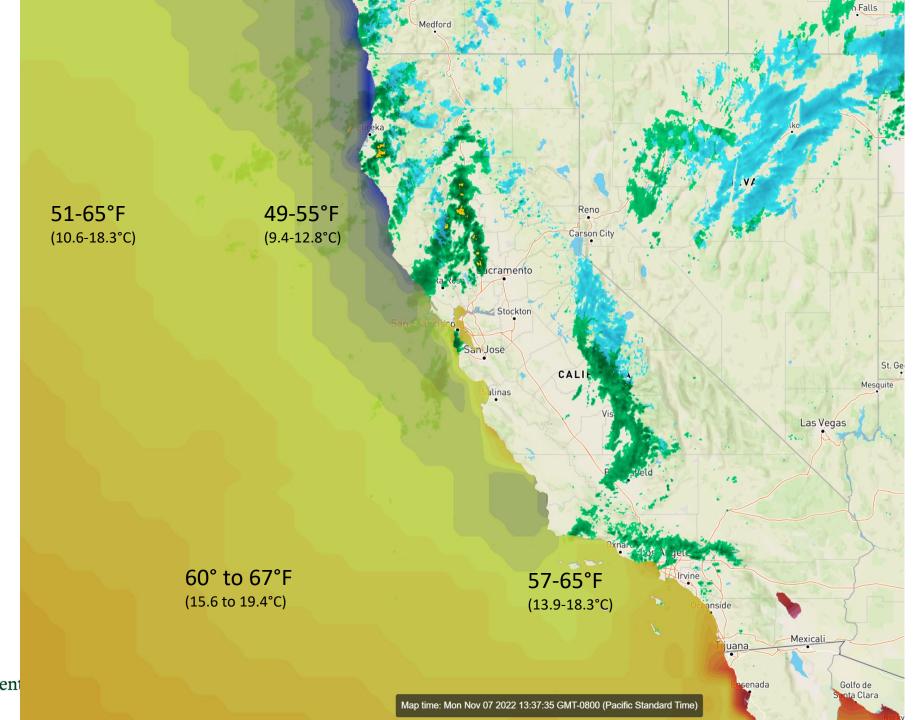
California's strawberry industry

- Climate & geography
- Value
- Acreage, production, yield
- Plant production (nurseries)
- Fruit production
- Cultural systems
- Processing
- Pests and diseases





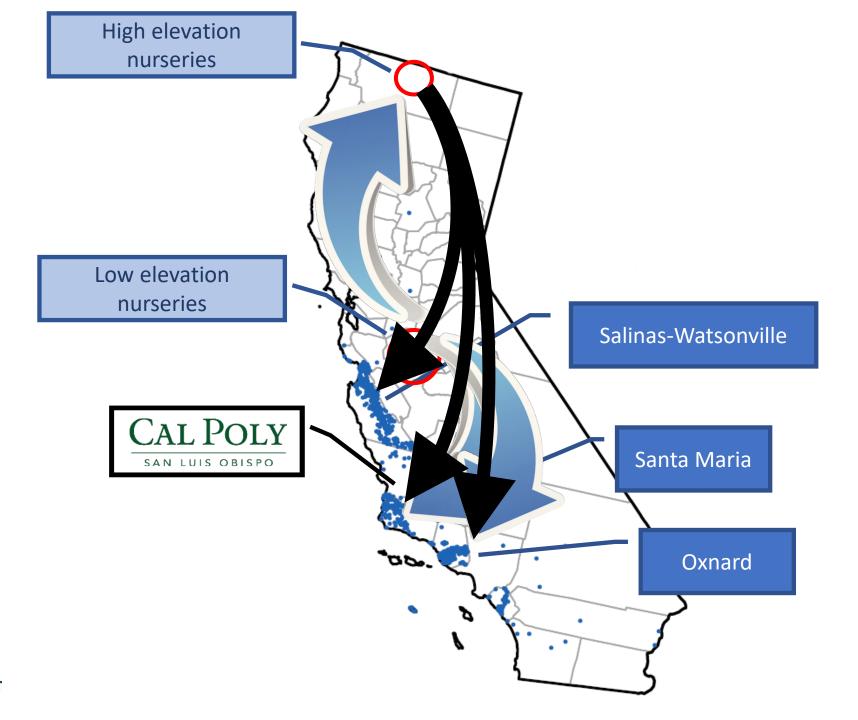












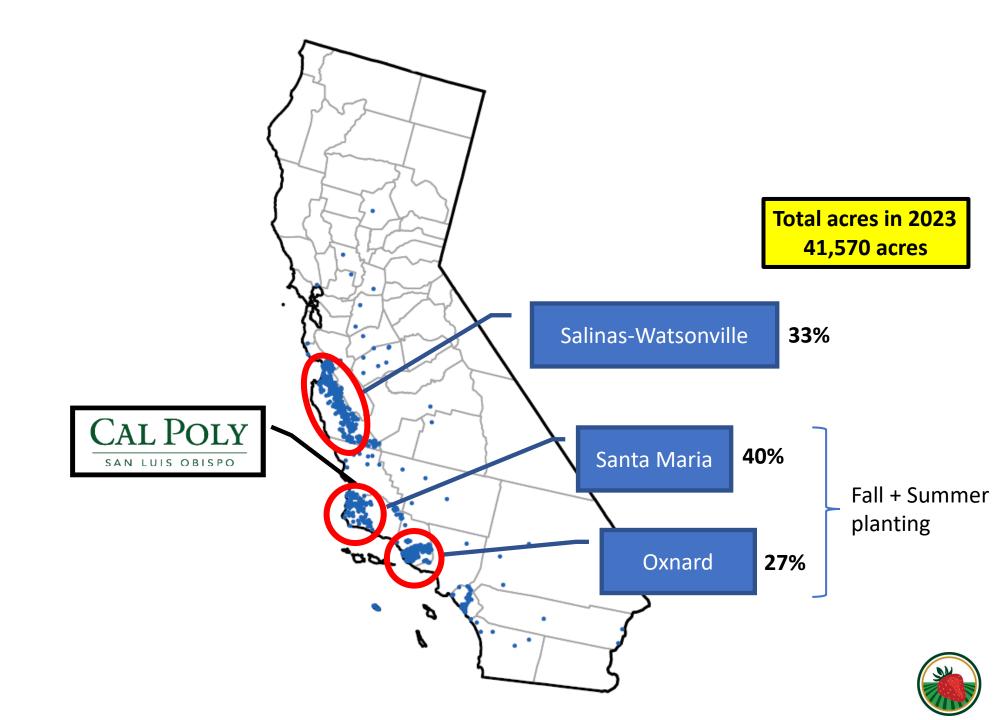






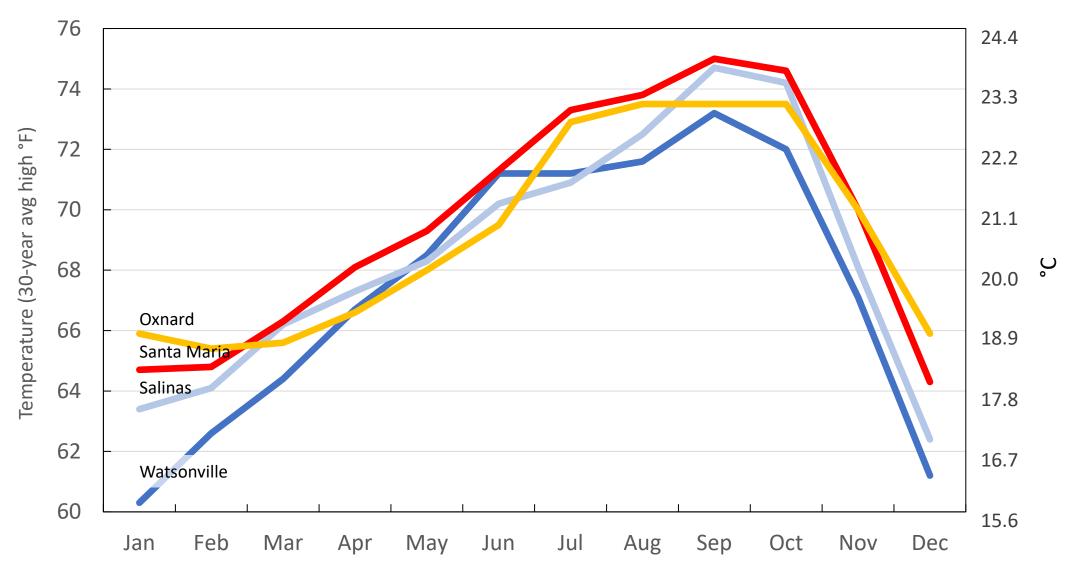






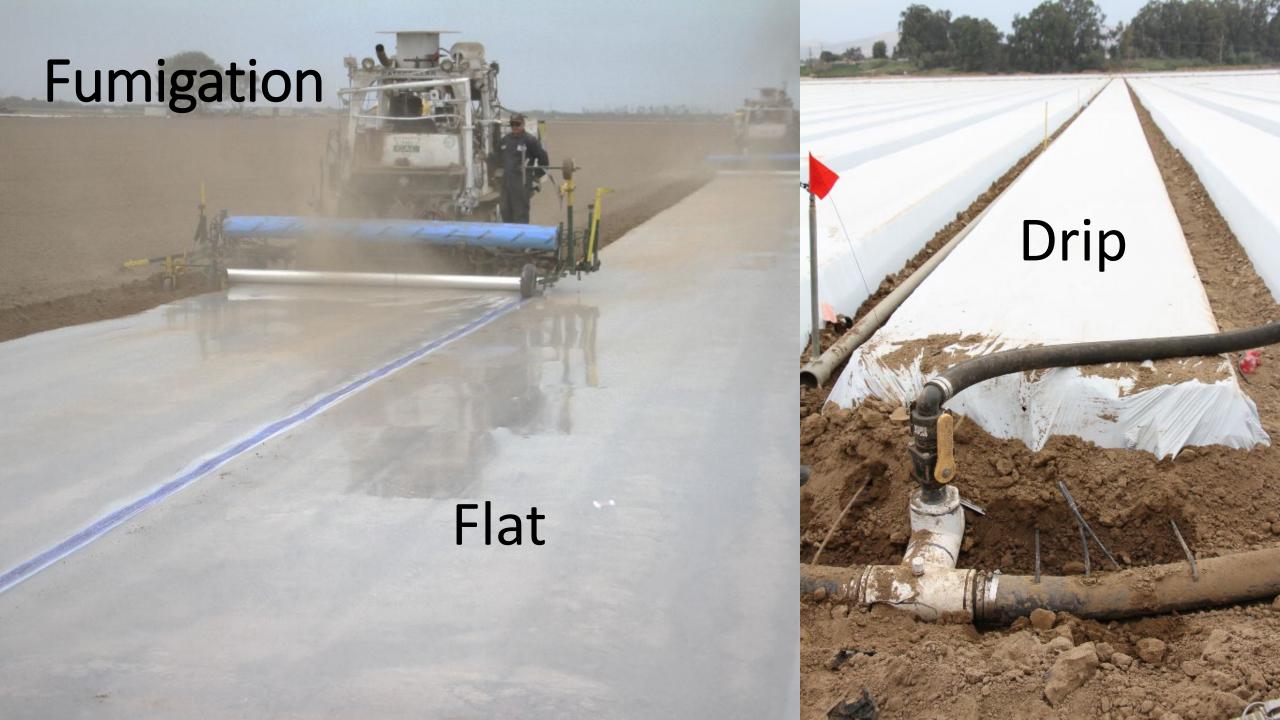


30-year average high temperature









Production system





Southern Districts: Santa Maria and Oxnard



Northern District: Salinas - Watsonville















Harvest aids

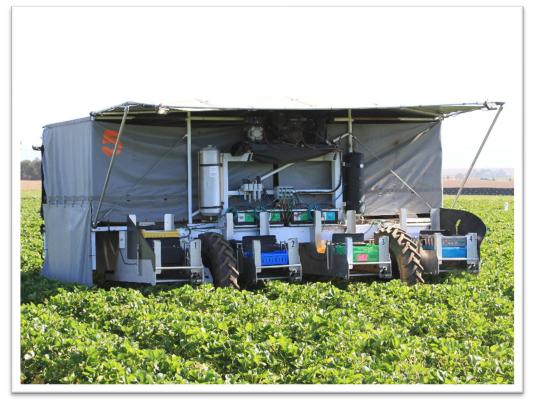


Robotic harvesting











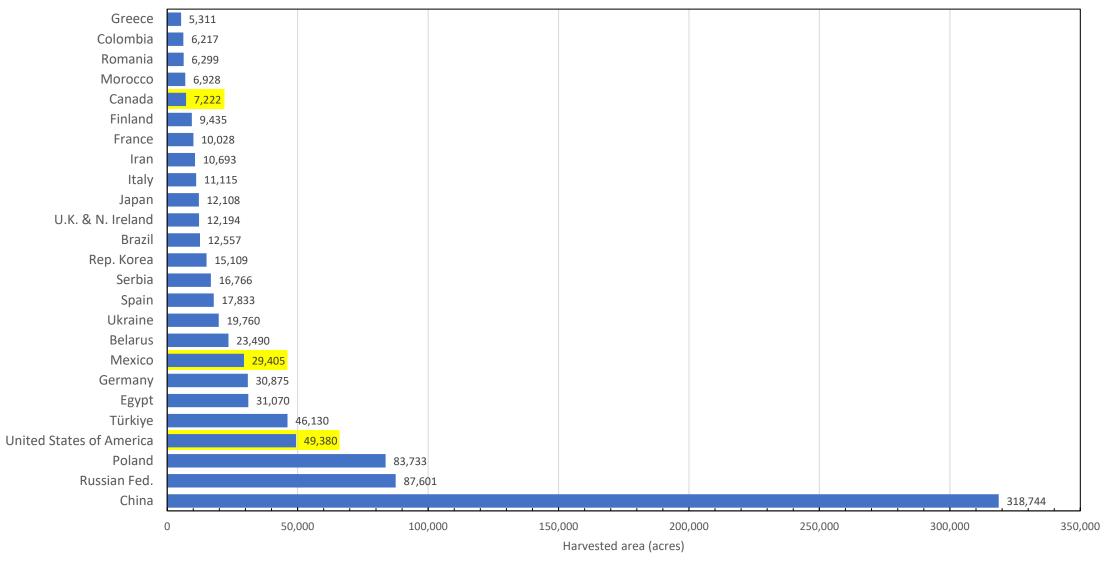






Production & yield

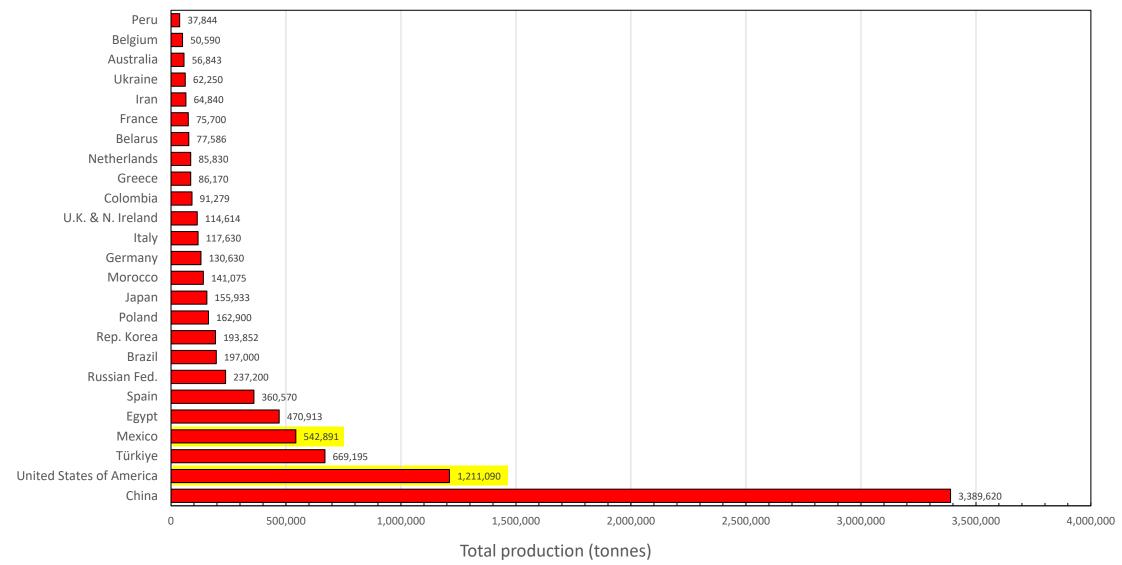
Harvested area (acres)





Source: FAOSTAT 2021

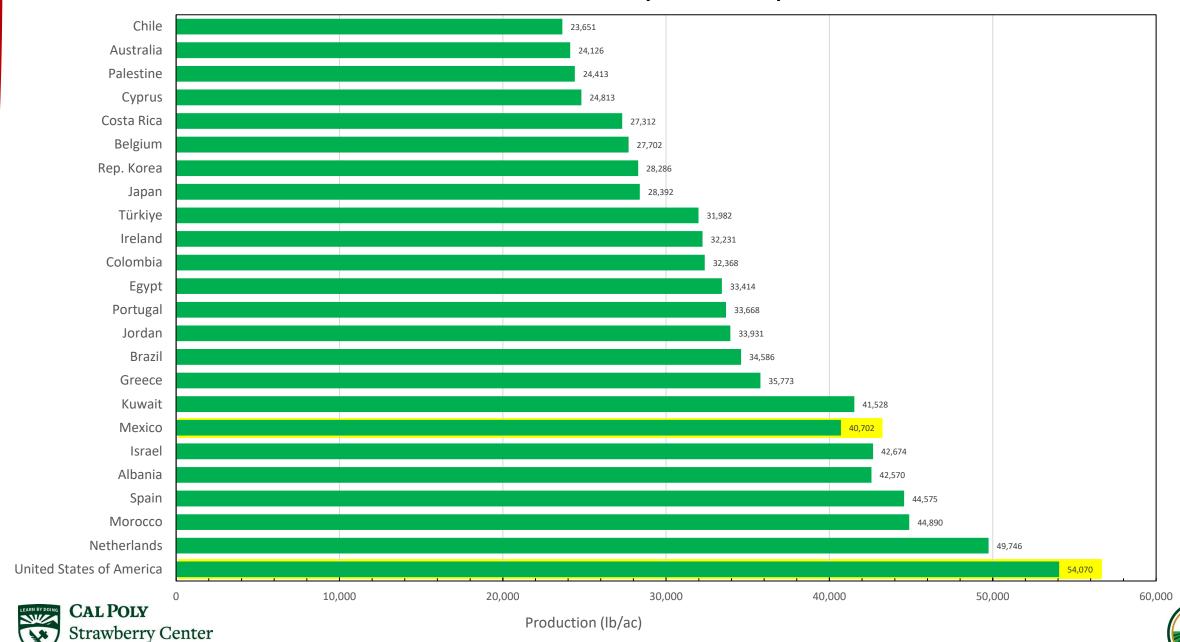
Total production (tonnes)





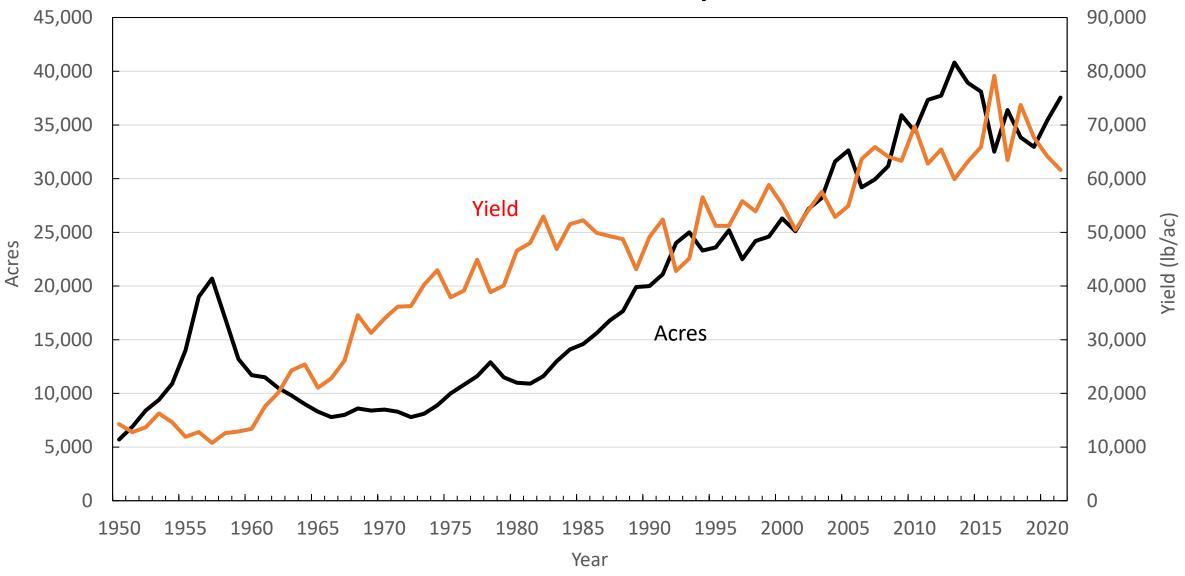
Source: FAOSTAT 2021

Production (lb/acre)



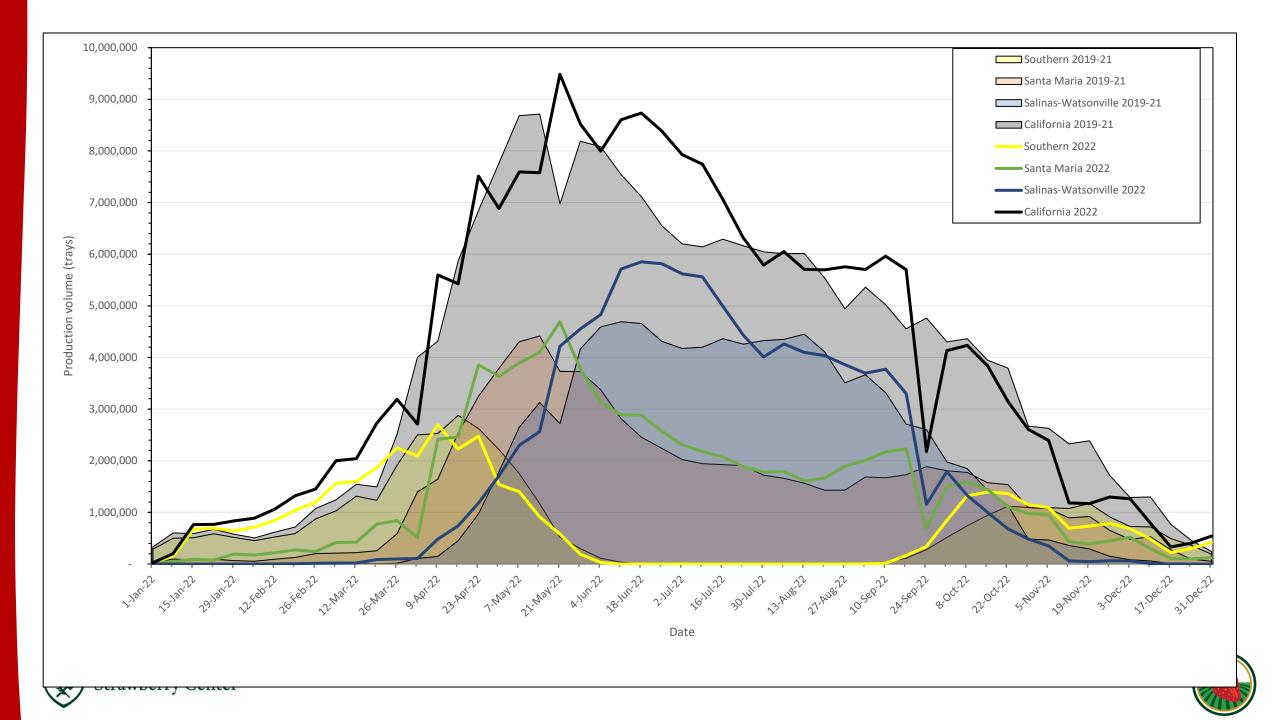
Source: FAOSTAT 2021

California acres & yield

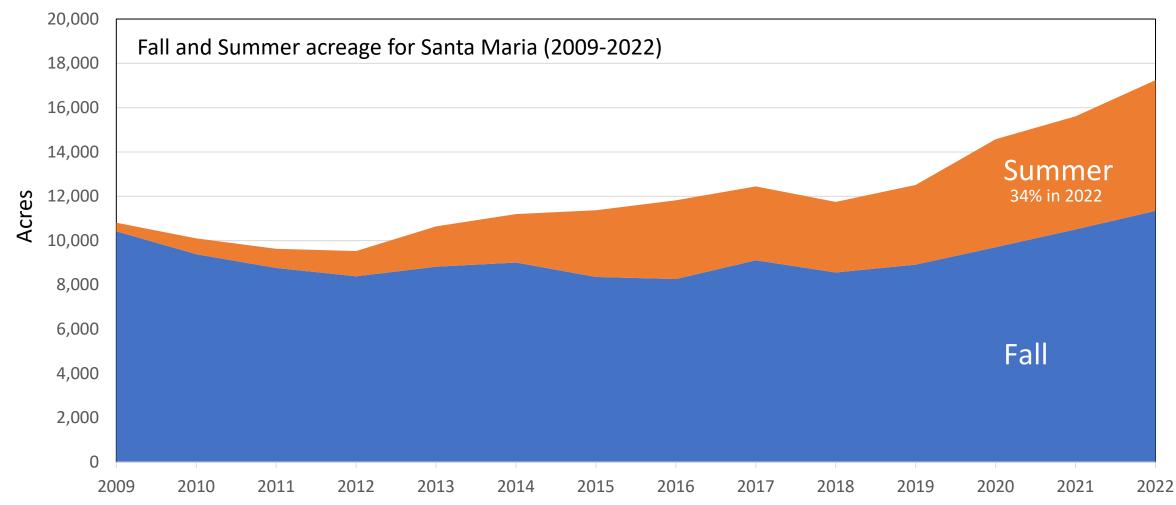






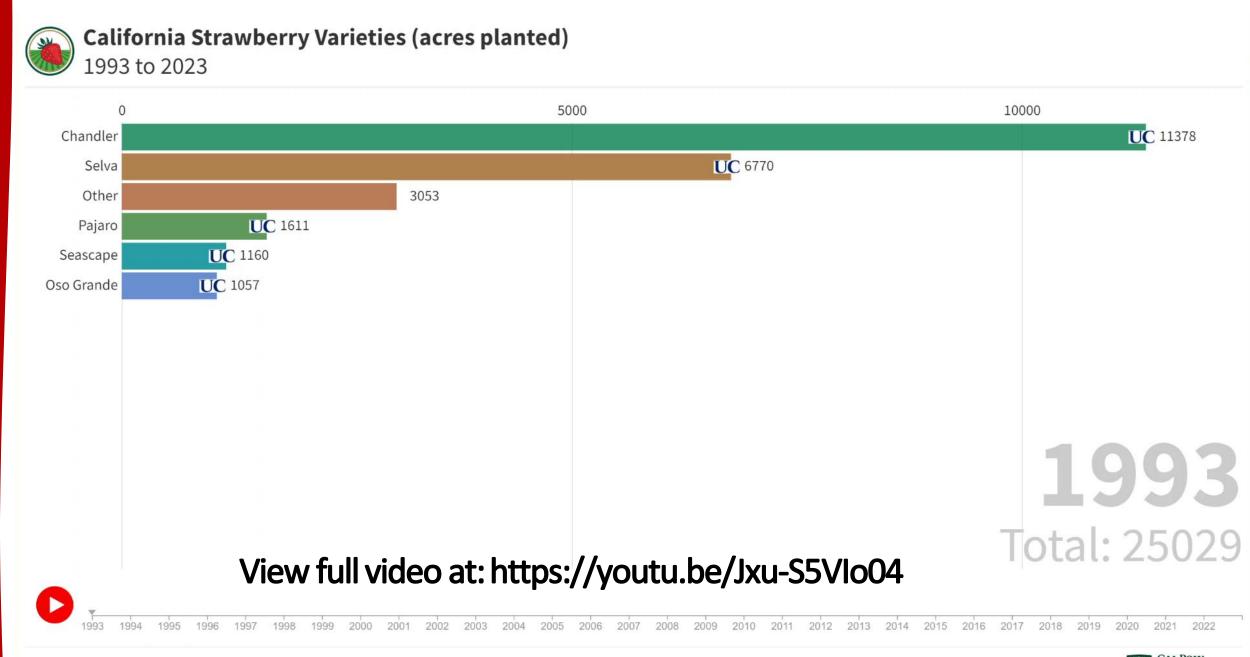


Planting timing (Fall and Summer)



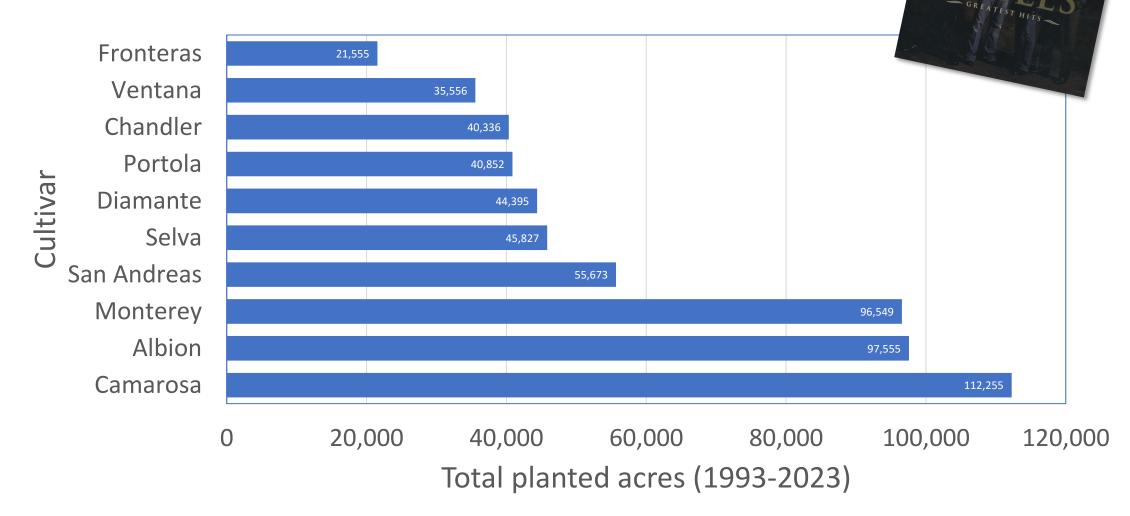








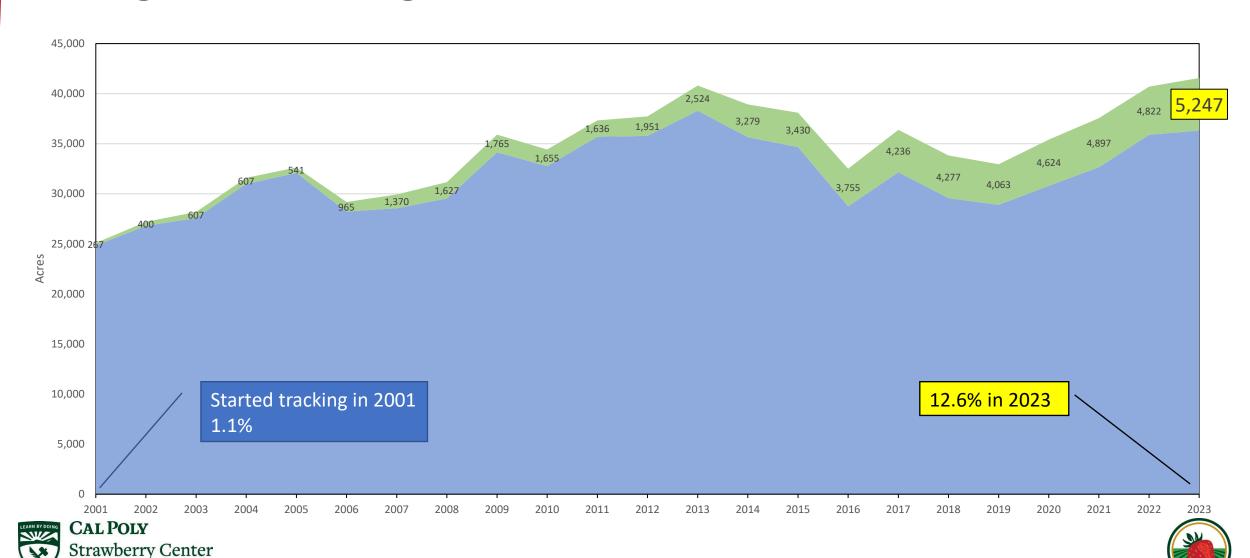
Greatest hits (top 10 cultivars)

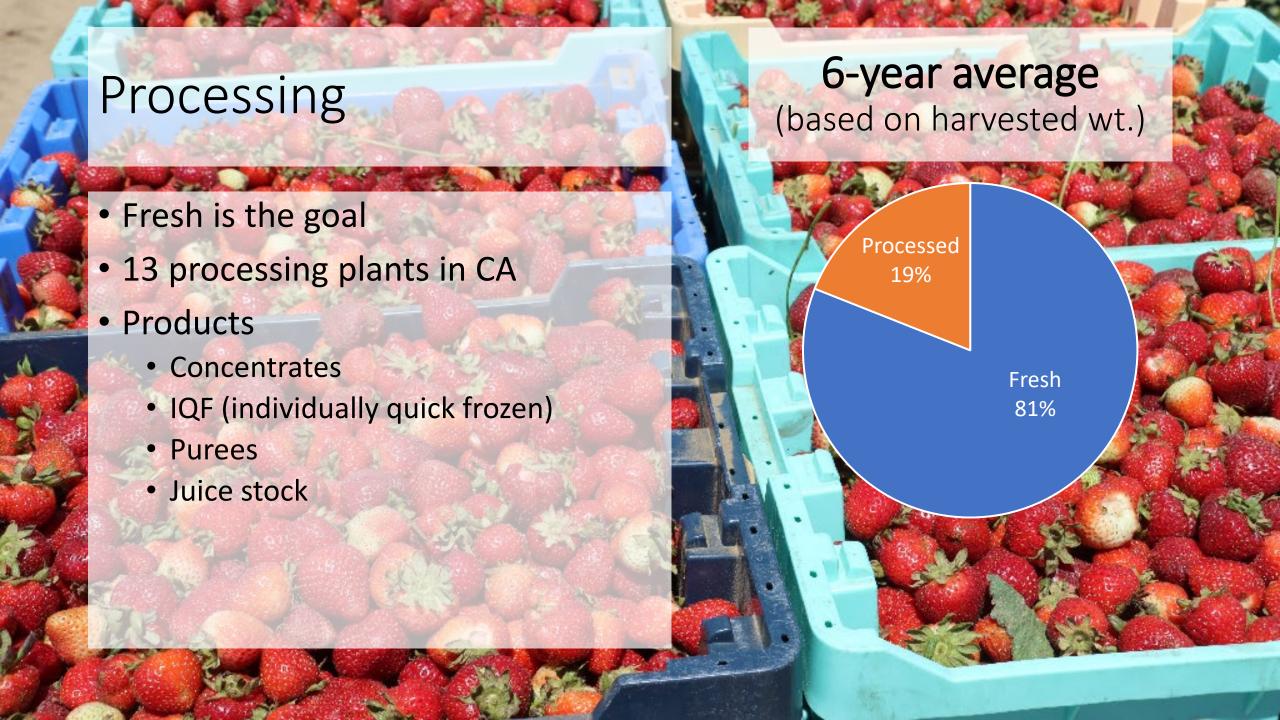






Organic acreage





Pests & diseases



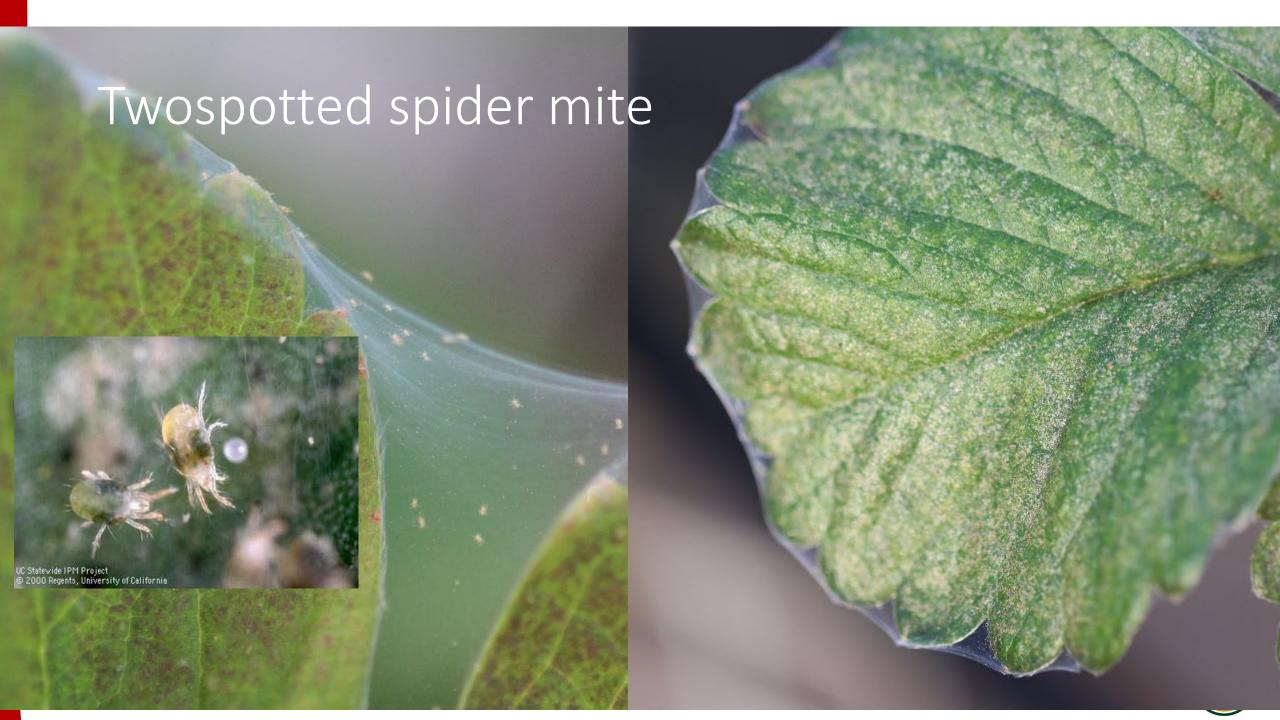


Lygus hesperus









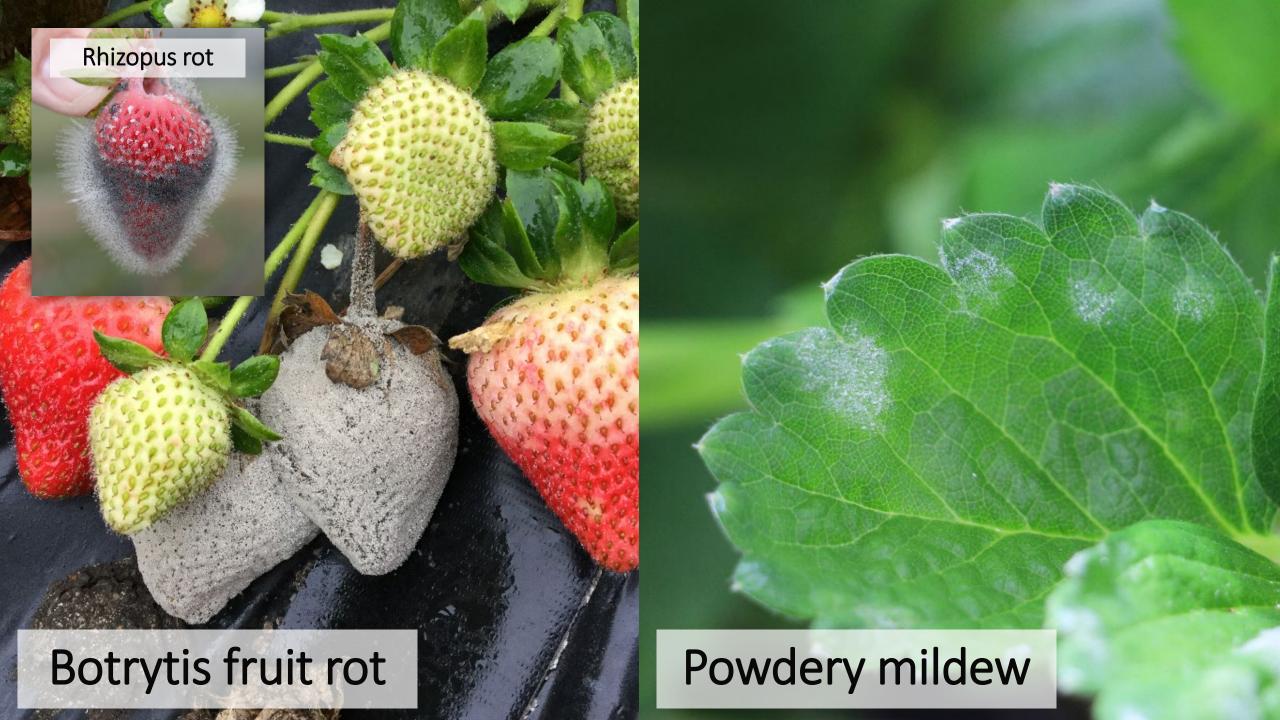


Other arthropod pests

- Whitefly
- Aphid
- Thrips
- Cutworms









Other disease concerns

- Anthracnose (occasional)
- Neopestalotiopsis (not yet)
- Viruses (occasional)
- Root-knot nematodes (rare)







California Unveils Plan to Eliminate High-Risk Pesticides by 2050

Yesterday, the state joined leaders from a diverse range of backgrounds to unveil a roadmap of ambitious goals and actions to accelerate California's systemwide transition to sustainable pest management and eliminate prioritized high-risk pesticides by 2050 to better protect the health of our communities and environment, while supporting agriculture, food systems and community well-being...

- 2025: review process prioritizes and expedites alternative products to high-risk pesticides
- 2050: Eliminate use of Priority Pesticides and transition to sustainable pest management practices
- Require all PCAs to become trained in SPM





Other issues

- Water
- Fumigation regulation
- Plastic disposal
- Urban encroachment
- Labor





For additional information

Website: https://strawberry.calpoly.edu/



YouTube channel:

https://www.youtube.com/@calpolystrawberrycenter



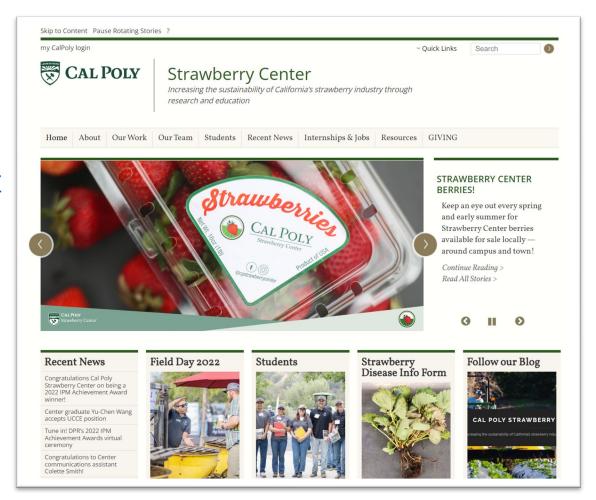
Blog: https://strawberrycenterblog.com/



Facebook:

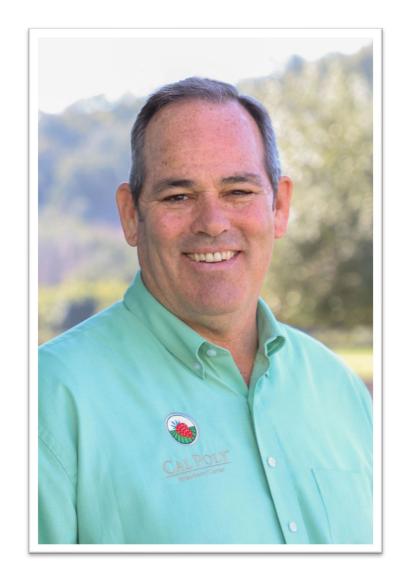


Instagram:









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