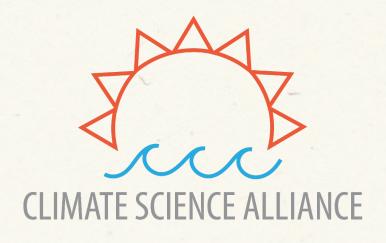


Building Climate Resilience with Southern California Agriculture

THE CLIMATE SCIENCE ALLIANCE

Our Vision



The mission of the Climate Science Alliance is to safeguard natural and human communities in the face of a changing climate. We do this through leading activities and creating partnerships which increase awareness of climate change impacts, promote solutions, and facilitate action.



Responses to Climate Change

Mitigation:

- Addresses causes
- Focus on reducing greenhouse gas emissions





Adaptation:

- Addresses impacts on people and ecosystems
- Focus on preparing for and managing impacts
- Resistance/Resilience –
 Accommodation Transformation

Climate Change Consortium for Specialty Crops

Vision:

Convene growers, technical advisors, stakeholders, researchers and representatives of California's specialty crop industry to make recommendations on strategies for climate change adaptation

2012 Consortium Recommendations:

1

1. Research Needs



2. Planning & Resource Optimization



3. Outreach & Education



4. Technology & Innovation



Learn more about 2012 Consortium Final Report that summarizes these recommendations:

Climate Change Consortium for Specialty Crops

Outcomes of 2012 Consortium:

Online Platform for **Educational Resources**

Office of Environmental Farming & Innovation (EOFI)

Advancements in Research & Technical Tools Informed State & Federal **Programs**

Creation of Climate Resilience Incentives:











Targeted assistance for farmers and ranchers

New in 2019!

STATE OF THE CLIMATE

Regional Climate Projections



Temperature

Increases in overall average temperatures, with higher daily maximum temperatures and more frequent/intense heat events



Precipitation

Precipitation will become more variable and extreme events will continue to intensify



Wildfire

Increased risk of high intensity wildfires



Drought

More dry days, dry years, and more frequent/intense droughts. Projections indicate a drier Southern California

Climate Impacts to Agriculture

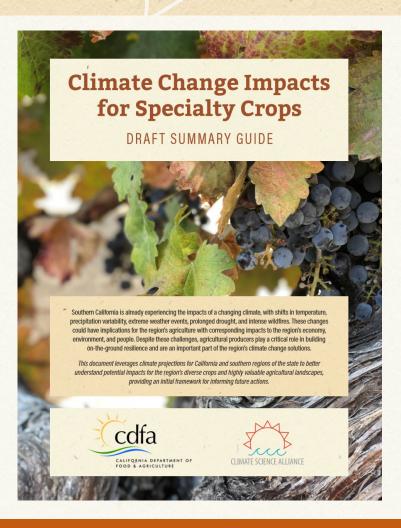




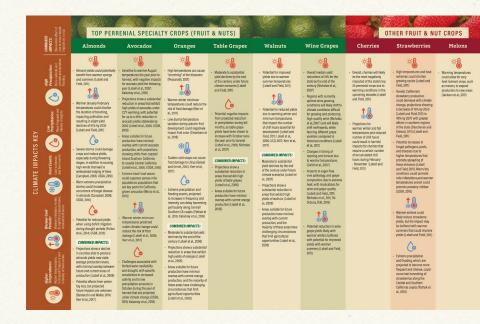




Draft Summary Guide



- Regional climate projections
- Overview of climate impacts for agriculture
- Potential impacts for California's top crops



California Crops & Climate Change



Avocados

- Declines in yields
- Decreases/shifts in areas suitable for production
- Reduced risk of frost damage
- Sensitivity to rainfall and water availability



Citrus

- Delayed harvesting due to extreme precipitation/flooding
- Impacts to fruit quality and yields
- Decreases/shifts in areas suitable for production



Grapes

- Shifts in areas suitable for production
- Different varieties
- Impacts to quality
- Changes in timing of ripening/harvest

2020 Climate Change Consortium for Specialty Crops

Over 40 producers, researchers, technical advisors, and representatives





Challenges and opportunities moving forward

2020 CLIMATE CHANGE CONSORTIUM FOR SPECIALTY CROPS

Case Studies of Resilience

Learning from our region's producers and the strategies they are testing to

build on-the-ground resilience





Input & Recommendations

Challenges & Concerns:

- Greater seasonal unpredictability
- Shifts in growing season and harvest
- Difficulty in crop planning
- Crop losses





Recommendations & Opportunities:

- Diversified & new crop varieties
- Local research, data and monitoring
- Cover cropping, composting, mulching, agroforestry
- Funding and subsidies

We Need Your Input!

Climate Change Consortium for Specialty Crops

Share your input & recommendations through our surveys:

Producer/Farmer Survey & **TA/Researcher Survey**

- San Diego Region: Follow-Up Feedback Session
- South San Joaquin region: Consortium event

www.climatesciencealliance.org/farmer-feedback





2020 CLIMATE CHANGE CONSORTIUM FOR SPECIALTY CROPS

Thank you!

For questions and to get involved, please contact Lindsey at: ljasperse@climatesciencealliance.org

2020 Consortium resources, events, surveys, and case studies: www.climatesciencealliance.org/farmer-feedback

2012 Climate Change Consortium for Specialty Crops final report: www.cdfa.ca.gov/oefi/climate/climate_change_consortium_info.html



