

California Agriculture and a Changing Climate

Facts

The climate is changing and having impacts around the world, including in California

- Average summer temperatures in California have risen by approximately 3 degrees F (1.8 C)¹
- If global greenhouse gas emissions continue at current rates, the state is likely to experience further warming by more than 2 degrees F by 2040, more than 4 degrees F by 2070, and by more than 6 degrees F by 2100¹
- Keeping land in agriculture results in 70 times less metric tons of carbon dioxide greenhouse gas emissions compared to cities and towns²

Potential Impacts

More extreme and less predictable weather events

- “Extremely hot” days throughout parts of California (at least 105°F) will become more common
- Moisture will fall as rain and less as snow pack
- Increased chance of droughts (and increased dust)
- Less surface water allocations for agriculture
- Increased fires (and smoke)
- Reduced chill hours
- Increased pest pressures

What You Can Do: Be Part of the Solution

- Continue or become part of the Climate Smart Agriculture (CSA) efforts at the Napa County Farm Bureau [State](#) and [Federal](#) levels
- [Climate Smart Agriculture](#)³ is defined as sustainably increasing agricultural productivity and incomes, adapting to a changing climate and mitigating greenhouse gases
- Mitigate greenhouse gases - Join one of many state [Climate Smart Agriculture \(CSA\)](#) efforts
- Adapt to Climate Change - Join one of many [Climate Smart Agriculture \(CSA\)](#) efforts
- Contact a [University of California Agriculture and Natural Resources Cooperative Extension Specialist](#)
- Contact a [Climate Smart Agriculture Technical Assistant Provider](#)



SHARE
the effect of
climate impacts to
your farm or ranch.

Help us to tell your story

Email us at

cabountifulfoundation@cbbf.com

Or contact

Dr. Amrith (Ami) Gunasekara, PhD,
Director of Science and Research,
California Bountiful Foundation at:
279-977-2963

californiabountifulfoundation.com

The California Bountiful Foundation is a division of California Farm Bureau, working to give a voice to Farmers and Ranchers by addressing the issues of California agriculture head-on.

1. <https://scripps.ucsd.edu/research/climate-change-resources/faq-climate-change-california>

2. Jackson, L. et al (2012) Agricultural mitigation and adaptation to climate change in Yolo County, CA. California Energy Commission Project 500-09-009, pp.153.

3. <https://www.fao.org/climate-smart-agriculture/en/>