



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

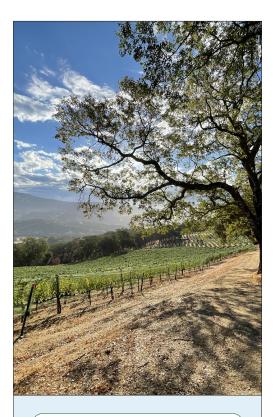
Potential Impacts

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
- <u>Climate Smart Agriculture</u>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 <u>Climate</u> <u>Smart Agriculture (CSA)</u> efforts
- Adapt to Climate Change Join one of many <u>Climate Smart</u> Agriculture (CSA) efforts
- Contact a <u>University of California Agriculture and Natural</u> <u>Resources Cooperative Extension Specialist</u>
- Contact a Climate Smart Agriculture Technical Assistant Provider



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the effect of climate impacts to your farm or ranch.

Help us to tell your story

Email us at

cabountifulfoundation@cfbf.com

Or contact

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

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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/