Climate & Agriculture:

Climate Smart Agriculture Policy and Practice

Jeanne Merrill, Policy Director May 30, 2019



CalCAN: Early Policy Campaigns

Investing in Sustainable Agricultural Solutions to Climate Change

2010: SB 1241 (Wolk) – Proposed Climate & Ag program (died)

2011: SB 237 (Wolk) (died)

2015: SB 367 (Wok) (died)

2016: SB 1350 (Wolk) - **Established Healthy Soils program - Success**

Farmland Conservation as Climate Strategy

2013: AB 823 (Eggman) – Farmland Mitigation (died)

2014: AB 1961 (Eggman) – Sustainable Farmland Strategy Act (died)

2017: SB 732 (Stern) – **Ag land planning grants** – **Success**

Connecting On-Farm Renewable Energy to the Grid

2011: SB 489 (Wolk) – Expanded the types of on-farm RE projects NEM - Success

2012: SB 594 (Wolk) – **Established the Net Energy Metering Aggregation – Success**

Climate Smart Agriculture

2014: First Cap-and-Trade Investments:

- ► Sustainable Ag Lands Conservation Program(SALCP)
- ► State Water Efficiency and Enhancement Program(SWEEP)
- ▶ Dairy Digester Research and Development Program (DDRP)

2017: Second Wave of Climate Smart Ag Programs:

- ► Healthy Soils
- Alternative Manure Management Program (AMMP)
- ► Adaptation program Wildlife Conservation Board



California meets greenhouse gas reduction goal years early

CHRISTOPHER WEBER July 11, 2018









RELATED TOPICS

Climate

California Air Resources Board

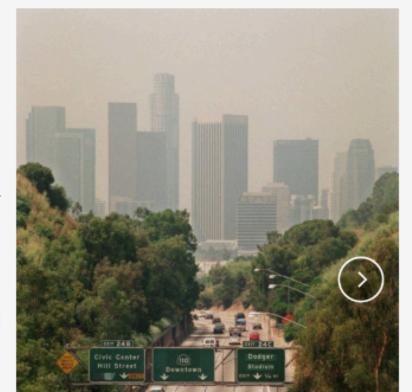
North America

Environment

California

LOS ANGELES (AP) — California greenhouse gas emissions fell below 1990 levels, meeting an early target years ahead of schedule and putting the state well on its way toward reaching long-term goals to fight climate change, officials said Wednesday.

The California Air Resources Board announced pollution levels were down 13 percent since their 2004 peak — as the economy grew 26 percent since that year. The achievement was roughly equal to taking 12 million cars off the road or saving 6 billion gallons (22.7 billion liters) of gasoline a year, the board said.



Climate Change Investments

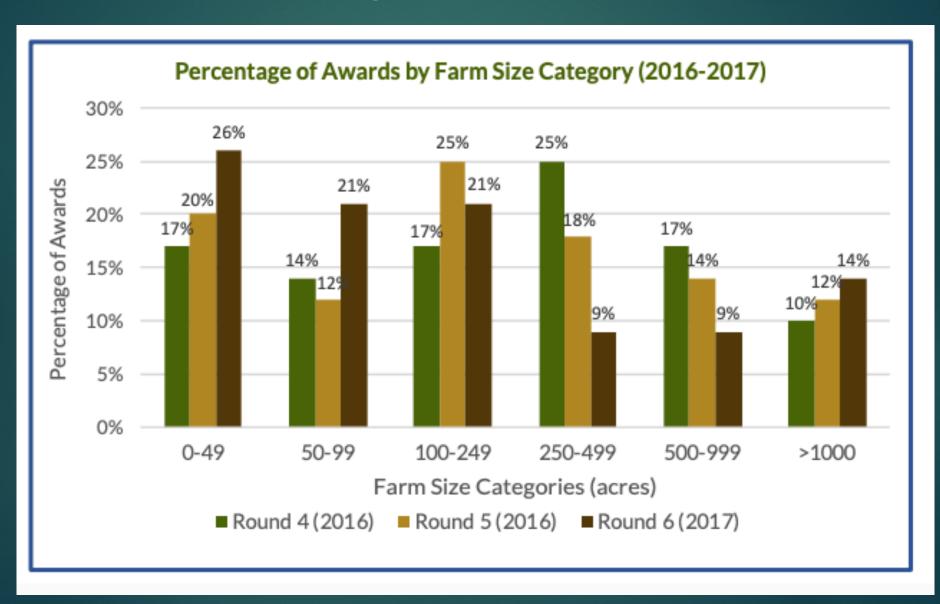


Over \$9 billion invested in climate change programs since 2014.

CLIMATE SMART AGRICULTURE IN ACTION



SWEEP Awards by Farm Size, 2016-17



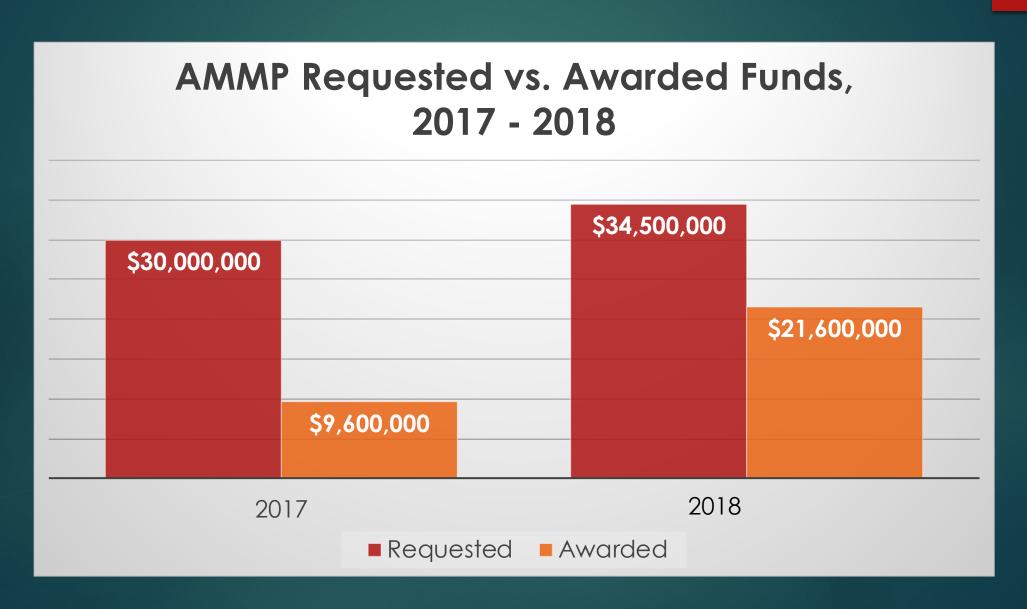
Sustainable Ag Lands Conservation Program

SUSTAINABLE AGRICULTURAL LANDS CONSERVATION PROGRAM (SALCP)

SALCP supports the reduction of GHG emissions associated with urban sprawl and rural ranchette development by protecting at risk agricultural lands. The program funds agricultural conservation easements to maintain land in farming as well as grants to local governments to improve farmland conservation planning and policy development.

- Launched in 2014
- Administered by the Department of Conservation on behalf of the Strategic Growth Council
- \$124 million awarded to date
- More than 90,000 acres protected in 31 counties
- 47 million metric tons of CO₂e reduced over 30 years

Alternative Manure Management Program



Healthy Soils

Figure 9. Implementation acreage goals for CDFA

Scenario	Annual Acres	Cumulative GHG Benefit by 2030	Cumulative GHG benefit by 2045	Estimated Annual Program Costs (millions)*
A: 500,000 acres by 2030	41,667	-5.3 MMT CO₂e	-12.0 MMT CO₂e	\$18.2
B: 1,000,000 acres by 2030	83,333	-10.7 MMT CO ₂ e	-24.1 MMT CO₂e	\$36.3

^{*}Costs based on \$436 per acre award.

Negative values indicate GHG emission reductions or sequestration. For details on the management activities this scenario examines, please see Appendix A.

Scale Up

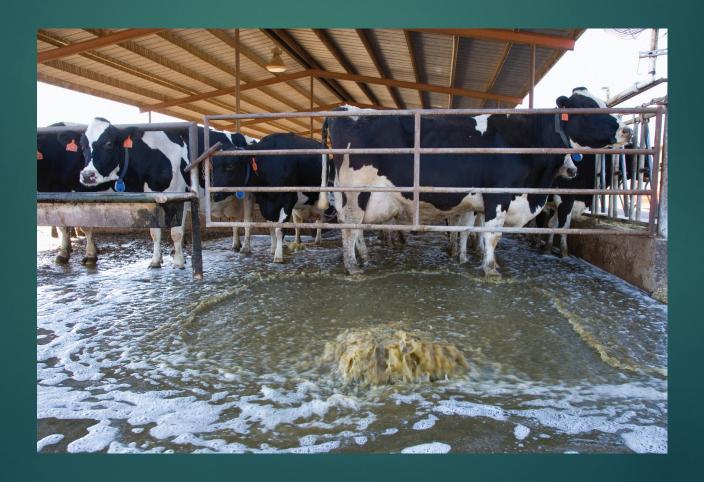
Scale Up investments in multi-benefit Climate Smart Ag programs



Increase GHG emission reduction target from natural and working lands

Integrate

Increase the adoption of Climate Smart Ag by integrating efforts across programs.



Streamline

Focus on regulatory **streamlining** to improve outcomes for the environment and farmers.



Level the Playing Field

Small and mid-scale farmers and socially disadvantaged farmers – least prepared for climate change – but important to our food security, rural viability.

Prioritize investment here to level the playing field.



Climate Smart Agriculture Budget Proposals (in millions)

	FY 2018- 2019 Funding	CalCAN's Budget Asks	Governor's May Revise	Senate's Proposal	Assembly's Proposal
SWEEP	\$20 million (Prop 68)	\$40	\$0	\$25	
Healthy Soils	\$15 million (GGRF and Prop 68)	\$50	\$28	\$30	\$45 total for Climate Smart Agriculture
Dairy Methane	\$99 million (GGRF)	\$40 (AMMP budget line item)	\$35 (for both digesters & AMMP)	\$35 (AMMP budget line item)	
CalRecycle's Organic Waste Program	\$25 million (GGRF)	\$100	\$25	\$75	\$25
Adaptation Tools for Farmers (AB 409)	\$0	\$2 million	\$0	\$100 for suite of adaptation programs*	\$185 for climate mitigation & resilience*

AB 1086 – SWEEP 2.0 Bill

Authored by Assemblymember Rebecca Bauher-Kahan (D-Orinda)

- 1. Incorporates groundwater recharge practices into the program
- Prioritizes grants for small and mid-scale farms and socially disadvantaged farmers and ranchers
- 3. Provides trainings to irrigation operators to maximize the benefits of their new systems
- 4. Enables CDFA to pursue integrated pilot projects with irrigation districts and groundwater sustainability agencies
- Establishes a technical advisory committee to improve the program's reach, user-friendliness, and develop SWEEP 2.0

Passed Assembly Floor 53-18

AB 409 – Adaptation Tools Bill

Authored by Assemblymember Monique Limón (D-Santa Barbara)

- Develop science-based, farm-level agricultural adaptation planning tools.
- Pilot the tools in three regions with local farmers, ranchers, TA providers, and ag organizations.
- 3. Provide trainings for TA providers and ag organizations on how to use the tools and effectively communicate about climate adaptation.

Passed Assembly Floor 76-0

Join us!





Jeanne Merrill, Policy Director

916-600-0083

jmerrill@calclimateag.org