

Multi -Benefit Agricultural Climate Solutions

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CalCAN
CALIFORNIA CLIMATE &
AGRICULTURE NETWORK





Rising Input Costs

Fertilizer, energy, water, and labor costs are at all-time highs

Rising Climate Risks

Droughts and floods now regularly cost billions of dollars in the CA ag economy

Rising Food Prices

Climate change is already contributing to food price inflation

State Targets



Reduce manure methane 40% by 2030 (SB 1383)



Increase healthy soils practices by 3.1 million acres by 2045 (AB 1757)

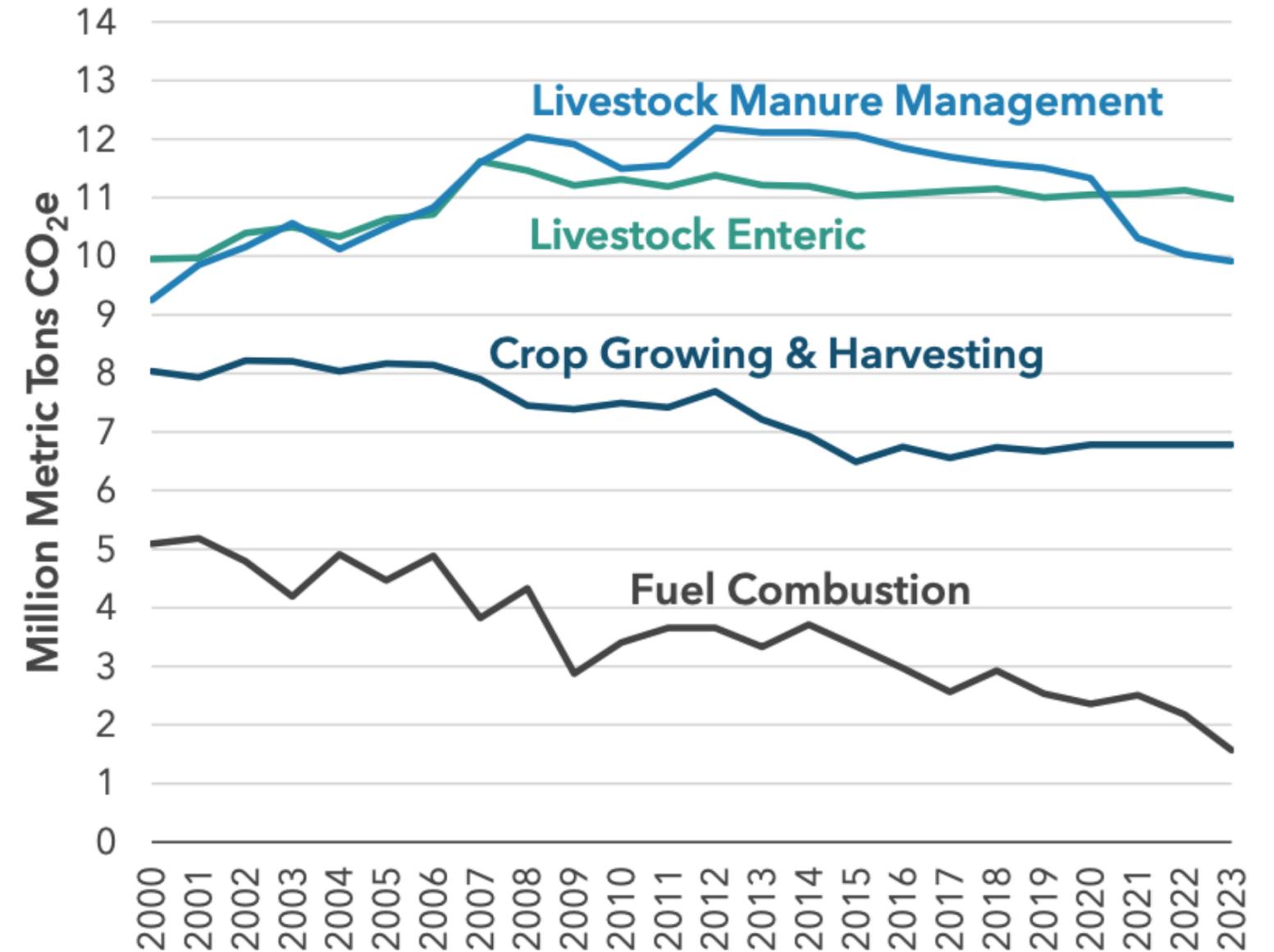


Increase organic acreage to 20% by 2045 (AB 1757)



Electrify 75% of ag energy use by 2045 (Scoping Plan)

CA Agriculture Sector Emissions (2000 -2023)



Source: CARB

Alternative Manure Management Program (AMMP)



Methane

Reduces manure methane by up to **80 percent**

Water Quality

Helps dairies comply with **water quality regulations** (Dairy Order & ILRP)

Compost

Two-thirds of AMMP projects convert manure to compost

State Water Efficiency & Enhancement Program (SWEEP)



N_2O & CO_2

Reduces both nitrous oxide and carbon dioxide emissions

Water & Energy

Reduces water and energy bills by **thousands of dollars** per year

Air Quality

Improves air quality by electrifying diesel irrigation pumps

Healthy Soils Program (HSP)



Carbon

Reduces soil carbon loss and **increases carbon storage** above and below ground

Water

Increases soil water **infiltration and retention** , reducing flood & drought risks

Biodiversity

Increases habitat for pollinators, birds, and beneficial insects

Evaluation Results

Farmers continue practices

Vast majority of participants intend to **continue new practices** after grant ends

Practices increased resilience

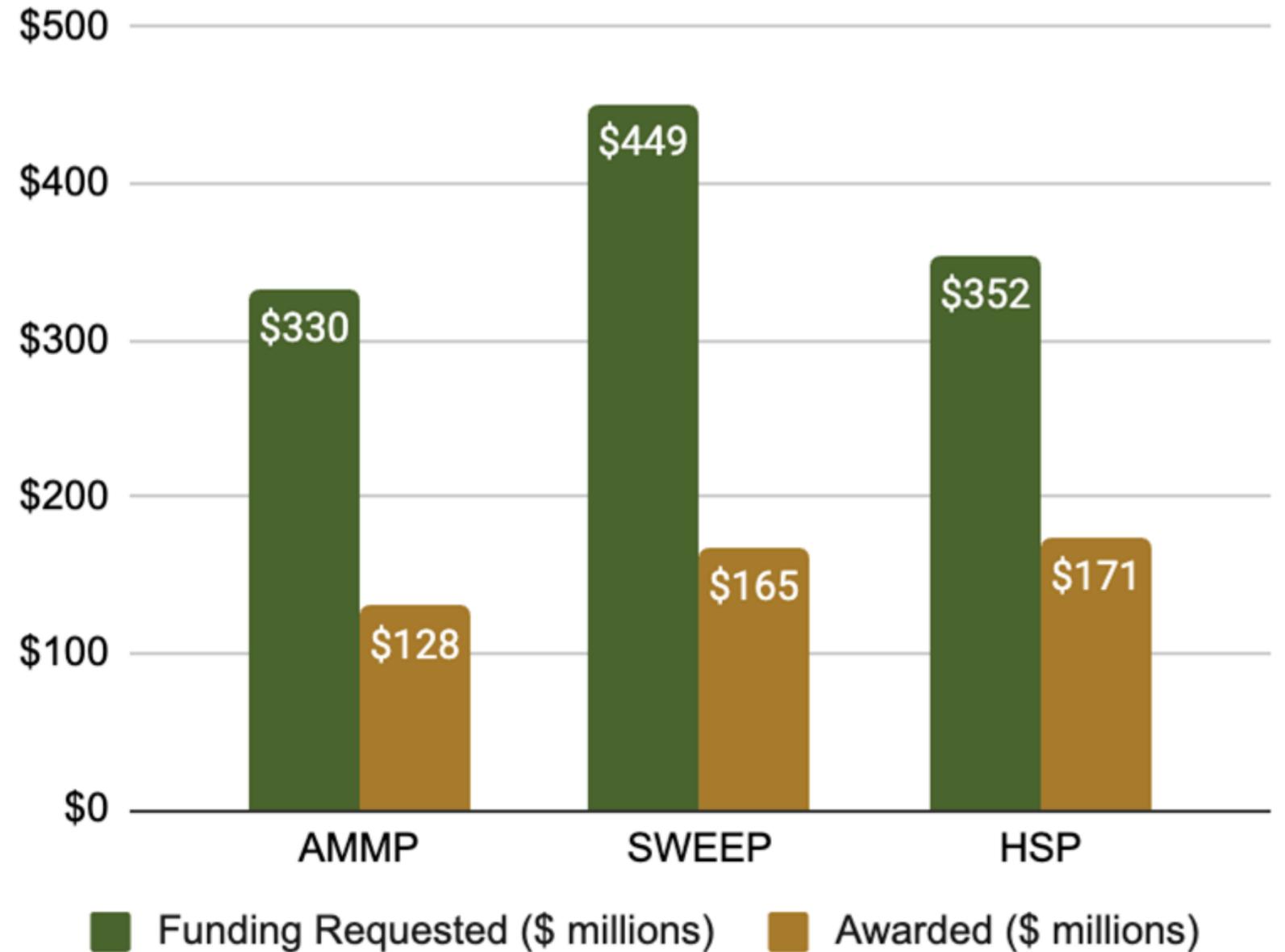
3 out of 4 participants indicated their farm is **more resilient** with new practices

Projects inspired other farmers

Over half of participants felt their project had **significant impact** on practice adoption by other farmers

Source: Babin et al (2024)

Climate Smart Agriculture
Program Demand vs Amount Awarded (2014-2025)





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