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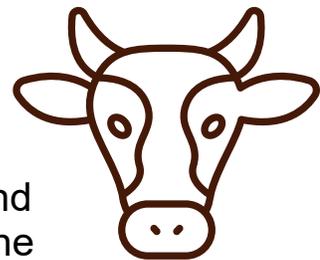
The Office of
Agricultural Resilience
& SUSTAINABILITY

METHANE REDUCTION PROGRAMS FOR DAIRY AND LIVESTOCK

The Industry at a Glance

Dairy and livestock operations are essential to California's economy, food security, and climate leadership—providing nutritious food for families across the state, the nation, and the world.

California is the nation's leading producer of milk, butter, ice cream, and nonfat dry milk, and ranks second in cheese and yogurt production. The state accounts for nearly one-fifth of all U.S. milk production, producing 41.9 billion pounds of milk in 2021. The California dairy market alone is valued at \$8.13 billion, with dairy products representing the state's second-largest agricultural export at \$3.2 billion in 2022—and continuing to grow.



California's livestock and beef sector is equally vital, with an industry value of \$4.98 billion in 2024 and approximately 600,000 beef cows raised on 11,000 ranches statewide. Beef is among California's top exported commodities, generating \$619 million in export value in 2022.

CDFA's Office of Agricultural Resilience and Sustainability



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The Office of
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Through the Office of Agricultural Resilience and Sustainability (OARS), the California Department of Food and Agriculture invests in grants for farmers, ranchers, and researchers to advance climate-smart practices, improve air and water quality, reduce greenhouse gas emissions, and strengthen long-term economic resilience. These investments help ensure California's dairy and livestock industries remain globally competitive, environmentally responsible, and well-positioned to meet the state's climate and sustainability goals while continuing to feed millions at home and abroad.

Our Programs BY THE NUMBERS

As of January 2026

Our Work

We support dairy and livestock producers through incentive and research programs that reduce methane emissions while strengthening on-farm efficiency and long-term viability. Our core programs — **Dairy Digester Research and Development Program (DDRDP)**, **Alternative Manure Management Program (AMMP)**, and **Dairy Plus Program** (with the California Dairy Research Foundation and USDA) — fund on-farm methane-reducing technologies that enable circular, self-sustaining practices, while OARS-funded research advances safe, science-based solutions, including reductions from enteric fermentation.

Program Overview

DDRDP

- 142 Projects Funded
- \$229 Million awarded to producers

AMMP

- 200 Projects Funded
- \$127 Million awarded to producers

Dairy Plus

- 37 Projects funded
- \$43.6 Million awarded to producers

Environmental Impacts



Combined, 27 million metric tons of CO₂ equivalent (MTCO₂e) will be reduced over 10 years.



This is the equivalent to removing 6.2 million cars off of the road

Types of Programs Funded

DDRDP

- Installation of anaerobic digesters
- Technologies that clean and condition biogas
- Equipment to upgrade biogas into renewable natural gas or other forms of energy

AMMP

- Pasture-based management
- Alternative manure treatment and storage, such as compost bedded pack barns
- Solid separation
- Conversion from flush to dry scrape manure collection

Dairy Plus

- Vermifiltration
- Weeping wall
- Advanced solid separation with flocculants or beads
- Advanced solid separation by centrifuge
- Subsurface drip irrigation
- Aerobic composting