

California Livestock Methane Measurement, Mitigation and Thriving Environments Research Program (CLIM3ATE-RP)

2022 Awarded Projects

| Title | Lead PI | Institution | Award Amount | Project Description |
|--|--------------------|----------------------------|--------------------|--|
| <i>Standard for Estimating Methane Emissions from Enteric Fermentation</i> | Dr. Ermias Kebreab | UC Davis | \$74,318 | This project culminated with the development of a research standard to extend the California Air Resources Board's work to estimate methane emissions from enteric fermentation research projects. |
| <i>Costs and Benefits of Alternative Manure Management Practices</i> | Betsy Karle | UC ANR | \$60,000 | This project will: 1. Quantify complete costs of annual operation and maintenance of actual compost bedded back and mechanical separator systems operating in California, 2. Quantify separation efficiency of mechanical separator systems, and 3. Quantify moisture levels and composting efficiency in compost bedded pack barns. |
| <i>From Waste to Riches: Turning Agricultural Waste into Feed Additives for Enteric Methane Reduction</i> | Dr. Matthias Hess | UC Davis | \$505,503 | This project will identify and chemically analyze 50 byproducts from the agricultural sector in California that pose an economical or ecological burden to screen for their potential use to reduce emissions of greenhouse gases if fed to cattle. |
| <i>Aquatic Crop Production as a Nutrient-to-Feed Solution for California Dairies</i> | Jason Prapas | Fyto INC | \$2,000,000 | This project proposes uses a manure recycling and product development project that is designed to scale and bring to market a solution to address nutrient management and feed challenges in California. |
| <i>Feeding Seaweed to Accelerate Enteric Methane Emissions Reductions in Central Valley Dairies</i> | John Gibbons | Mooteric LLC | \$500,000 | This project's primary objective is to evaluate the use of seaweed-based feed additives to California's Central Valley dairy industry. |
| <i>EVALuating the NEw Smart Climate-friendly CALifornia dairy: Measuring the climate and environmental air emissions footprint of improved manure management practices (EVANESCE-CA)</i> | Ira Leifer | Research International INC | \$1,599,918 | The project aims to create a comprehensive dataset of emissions and air quality from dairies with and without AMMP and DDRDP using new data collection methods, including a mobile air quality lab with remote sensing and data mining. |
| | | Total Awarded | \$4,739,739 | |