

Upcoming research:

HOW YOU CAN CONTRIBUTE

Improving Antibiotic Stewardship in Dairy Goats to Assure Food Safety and Milk Quality

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United States Department of Agriculture
National Institute of Food and Agriculture

Objectives

- Determine the **antibiotic withdrawal periods** for both meat and milk of dairy goats following intramammary infusion with dry cow therapy.
- Determine the efficacy of dry cow therapy for the **selective treatment of intramammary infections** at dry off in the dairy goat.
- Determine if the use of dry cow therapy result in the development of **antibiotic resistance** in dairy goats.
- Develop a **producer education program** via Cooperative Extension that demonstrates how mastitis prevention strategies coupled with a judicious approach to antibiotic use can minimize antimicrobial resistance, improve milk quality, and preserve food safety.

Seroprevalence and farm-related risk factors of *Toxoplasma gondii* infection in California goat herds

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Objectives

What information:

- The first dataset on **T. gondii seroprevalence** in goats in California.
- Evaluate **on-farm risk factors** and data regarding **reproductive outcomes** associated with T. gondii exposure.

What are the expected outcomes:

- Evaluate if T. gondii is associated with **abortions or lower birth rates** on farms with exposed does.
- Highlight potential management practices that can **reduce the risk** of infections.

Impact of coccidia species and burden on severity of disease in small ruminants

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Objectives

What information:

- **Fecal oocyst counts** and **physical condition** of lambs and kids in Northern California.
- Evaluate **on-farm risk factors** (including management practices, medications, and environmental and spatial factors) associated with coccidiosis.
- Determine **severity of infection** in the intestine.

What are the expected outcomes:

- Develop a **diagnostic test** that can quickly and accurately identify disease causing coccidia species.
- Examine the **relationships between coccidia species** causing infection, management practices, and environmental variations.

Capacity Building Using Train-the-Trainer Approach to Improve Biosecurity and Reduce Disease Spread in Small-scale and Backyard Livestock and Poultry Premises

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Objectives

- **The overall goal** is to **develop and improve biosecurity** among livestock producers at various scales, including alternative agricultural systems such as **small-scale, backyard and 4H/FFA livestock operations**
- **Multi-state outreach program (CA, WA & CO)** focused on targeted training, communication and outreach activities:
 - **Compile and summarize training information** available on biosecurity
 - **Develop capacity building by creating train-the-trainer tools/resources** on biosecurity and disease transmission for stakeholders, veterinarians, extension agents and educators
 - **Develop and pilot customized farm biosecurity plans** (farm visits)
- More info soon http://ucanr.edu/sites/Small_Farms/
- Funding: NADPRP, USDA-APHIS; timeline 2021-2023

