



# T178: Advancing dairy feed management through the National Animal Nutrition Program

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## ABSTRACT

Feed management integrates the planning, delivery, and utilization of diets to optimize animal productivity while minimizing nutrient losses and environmental impacts in dairy production systems. These principles form the foundation of the National Animal Nutrition Program (NANP) Feed Management Committee, a collaboration focused on advancing science-based feeding practices. As public and policy attention on nutrient management and sustainability increases, effective feed management provides dairy producers, conservation professionals, and industry stakeholders with tools to improve nutrient use efficiency, reduce nutrient excretion, and support environmentally responsible milk production while maintaining animal performance. The committee's objectives include facilitating science-driven dialogue, developing practical extension resources, and delivering targeted education and trainings. To date, the committee has produced an introductory extension publication. Planned outputs include a dairy-specific feed management decision tree, a podcast series, specialized training, and additional extension publications to promote efficient and sustainable nutrient management in dairy production systems.

## NANP AT A GLANCE

500K+

Observations on animal performance & metabolism

4M+

Feed ingredient records archived

300+

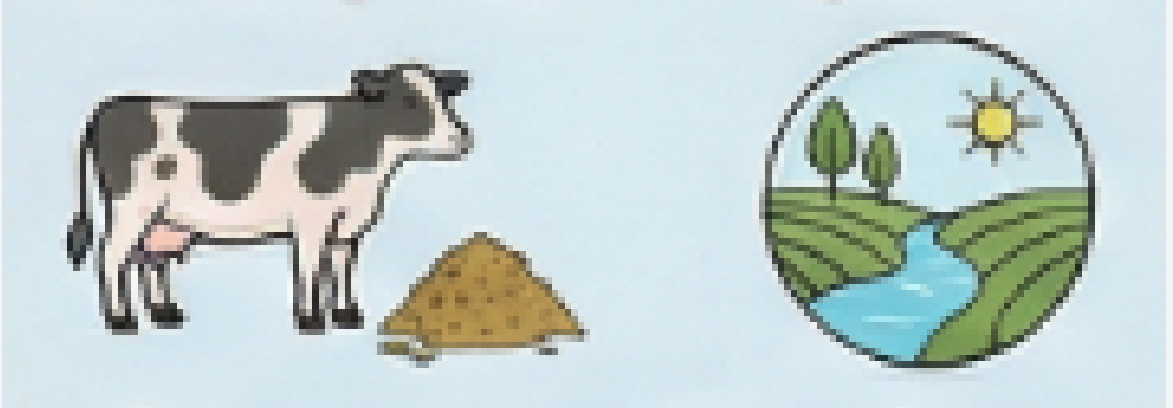
Modeling & statistics resources

30+

Peer-reviewed publications

- Workshops reached ~750 participants from five continents
- Materials viewed 3,000+ times
- Led by 31 scientists across 22 institutions with diverse species expertise

## FEED MANAGEMENT COMMITTEE



### Focus

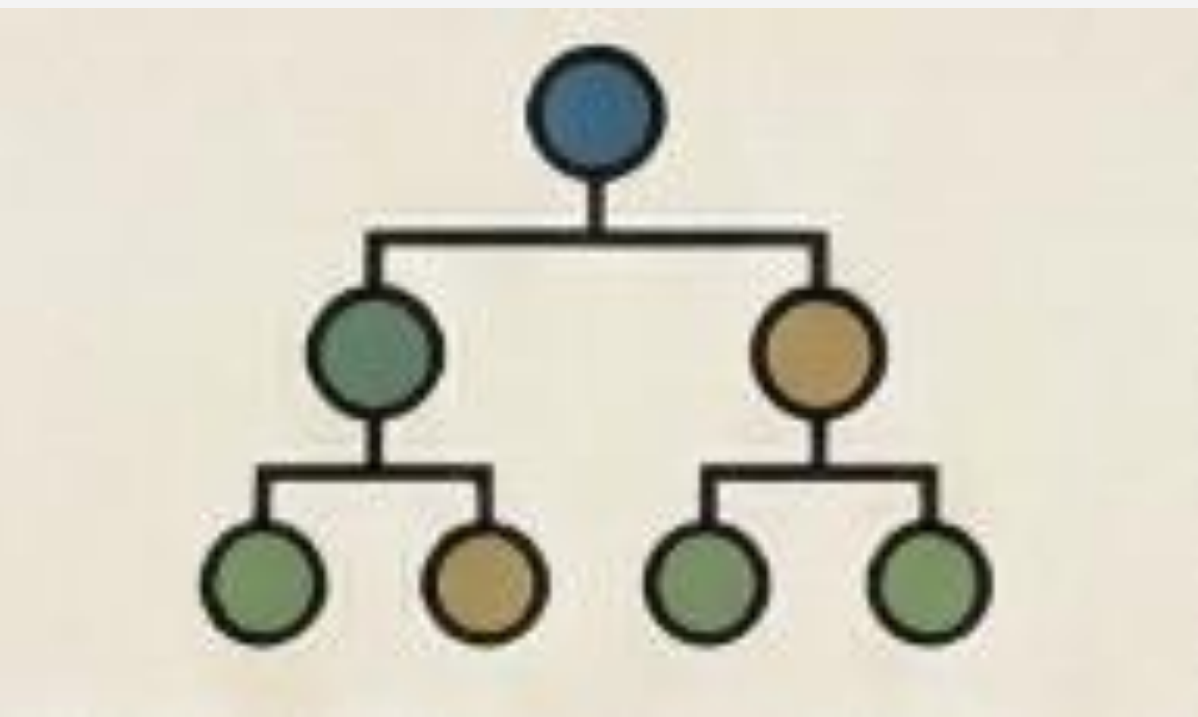
- Science-driven Dialogue:** Create a platform for science-based discussions regarding feed management and animal nutrition
- Accessible Resources:** Provide user-friendly nutrition information specifically designed for conservation professionals to use in the field
- Evaluation Tools:** Contribute expert knowledge to improve and refine NRCS evaluation tools and modeling for livestock operations
- Targeted Training:** Provide education and training opportunities to ensure the adoption of best practices

### Impact Areas

- Dairy Producers:**
  - Improved feeding decisions
  - Enhanced nutrient efficiency
  - Support for long-term sustainability
- Conservation & Extension Professionals:**
  - Science-based decision-support tools
  - Improved consistency in nutrient management planning



## IN DEVELOPMENT



Dairy-specific feed management intelligent decision tree



Podcast series highlighting applied nutrition and conservation topics



Specialized training for NRCS personnel and prospective Technical Service Providers



Extension publications to promote feed management



Standalone diet formulation tool

## CURRENT RESULTS

### Extension Publications

- Feed Management for Efficient U.S. Livestock Systems: Introducing the National Animal Nutrition Program's Feed Management Committee
- Connecting Nutrition and Conservation: The Importance of CPS 592
- Animal Nutrition Program's Feed Management Committee: Feed to Gain Calculator - Fat Inclusion

### Podcast Series

NATIONAL ANIMAL NUTRITION PROGRAM

6 episodes

NANP Feed Management Podcasts

Public

View full podcast



### MORE INFO



Publications



Podcasts



Become a TSP!