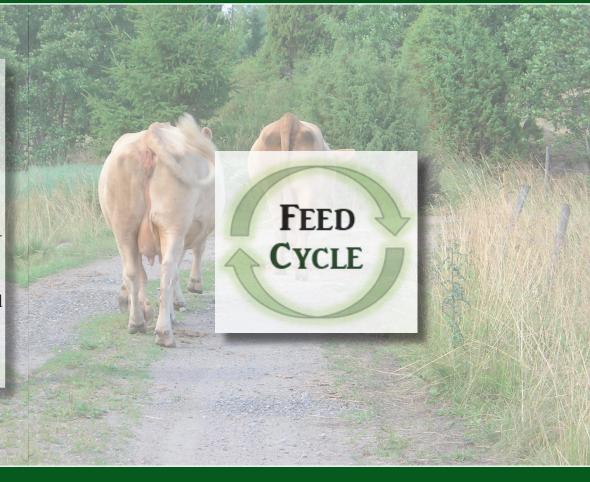
Feed Cycle is a collaboration project managed by:

- Department of Energy and Technology
- Department of Animal Environment and Health
- Department of Animal Nutrition and Management
- Department of Rural building and Animal Husbandry
- Department of Soil and Environment
- Department of Agricultural Research for Northern Sweden
- Department of Aquatic Sciences and Assesment
- JTI Swedish Institute of Agricultural and Environmental Engineering
- SIK the Swedish Institute for Food and Biotechnology

















ScopeWe will monitor all steps in the production of feed from cultivation on the field, through the animal, manure storage and spreading of the manure to the crop with a simulation model. The model will give an overview of the environmental impact of the feed and the model will be a central part of future research activities. The model will simulate quantities and specify of future research activities.

step will be to monitor the cycle of forage production on a dairy farm during one year.

in which forms the differnet nutrients circulate in the feed chain. The first

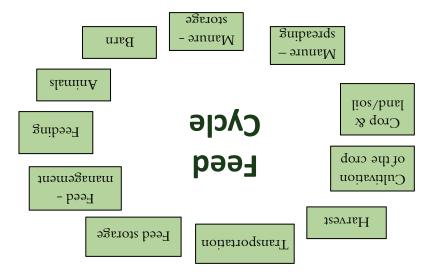


Figure 1. Graphic model of the feed cycle and its different areas

Contact
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or go to our webb site: www.slu.se/feedcycle









nimal production is a large part of Swedish agriculture. 75 % of the cropland is used for feed production. The animals impact on the environment is a question that has got a lot of attention these days and effect the losses of nitrogen, phosphorus and green

the demand is high to reduce the losses of nitrogen, phosphorus and green house gases from animal production. All environmental impact from the animals can utilise the feed. Some parts of the feed production chain is well understood and analysed in defined research projects, but other parts of the chain and especially the relationships between the different parts and how they interact with each other need to be further investigated.

General goal To contribute to an environmentally friendly animal production

To contribute to an environmentally friendly animal production by reducing nutrient losses in all parts of the feed chain

Aim. The sim of this project is to build a network of compentences from all parts of the chain, and to identify critical knowledge gaps in the cycle of home grown or locally produced feed. We will make preparations so that we later in this process can create an interdisciplinary system analysis model that can simulate the flow of carbon, nitrogen, phosphorus and dry matter on farm level, primarily in dairy and beef production.

Project goalTo coordinate applications and canalize research initiatives and PhD projects to key areas that have been identified in this project