



# Research Paper Summaries

Summaries of work relevant to Scottish/UK dairying - covering practical points, background and work undertaken.

- Methane mitigation
- Phosphorus feeding levels
- Calf disease prediction
- Antimicrobial usage and AMR
- Controlled traffic farming for grass silage yields

## Research Paper Summary

### Antimicrobial usage and antimicrobial resistance in Scottish dairy herds: a survey of farmers' knowledge, behaviours and attitudes

**Short title:** Scottish antimicrobial usage

**Key words:** Dairy; antimicrobials; AMR; farmer attitude

Ref No 23/2

---

#### Practical point

In dairying, antimicrobials are used frequently to treat infections, such as mastitis. Incorrect antimicrobial usage (AMU) can be associated with development of antimicrobial resistance (AMR). A Scottish dairy farmer

## Research Paper Summary

### Feeding behaviour and activity as early indicators of disease in pre-weaned dairy calves

**Short title:** Early indicators of disease

**Key words:** Dairy calves; early detection; feeding behaviour; respiratory disease.

Ref No 23/1

---

#### Practical point

There are differences between diseased and healthy calves in their activity levels and feeding behaviour on days prior to disease, which can be measured via an animal-mounted sensor. Utilising precision