

Research Notes

ARM & HAMMER



Prevalence of clostridial challenges on Wisconsin dairies.

BACKGROUND

Clostridia are normal inhabitants of the soil and intestinal tracts of dairy cows and calves. Many species are also commonly found in haylage, corn silage, straw, manure, colostrum and bedding.

More than 100 species of *Clostridium* are recognized, some of which are known to cause necrotic enteritis, hemorrhagic bowel syndrome and abomasal disease. Other *Clostridium* species produce high levels of acetone, butanol and butyric acid, which can negatively affect rumen function.

TRIAL OVERVIEW

A survey was conducted across 24 dairy farms to assess the prevalence and distribution of clostridial challenges on Wisconsin dairies.

Fecal samples were collected from cows across all stages of production from each farm and from calves if raised on the dairy. Feed components from each farm were also collected.

Samples were shipped to the ARM & HAMMER™ lab for assessment, and *C. perfringens* and total clostridial counts were measured.

RESULTS

- Among animals sampled, *C. perfringens* prevalence was measured at 92.4% in cows and 77.1% in calves (Figs. 1, 2)
- Total clostridia levels ranged from <10 cfu/g to 2.89×10^7 cfu/g
- Total *C. perfringens* levels ranged from <10 cfu/g to 1.45×10^7 cfu/g

FIGURE 1: Frequency of *Clostridium perfringens* counts in Wisconsin cow fecal samples

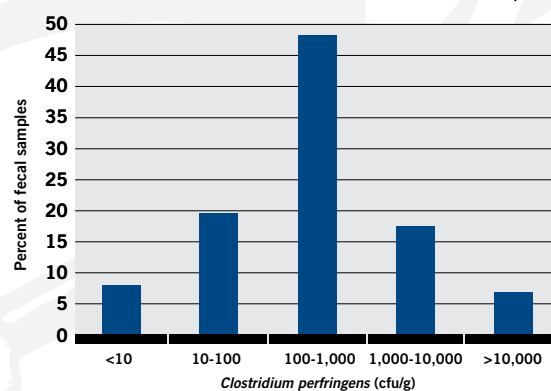
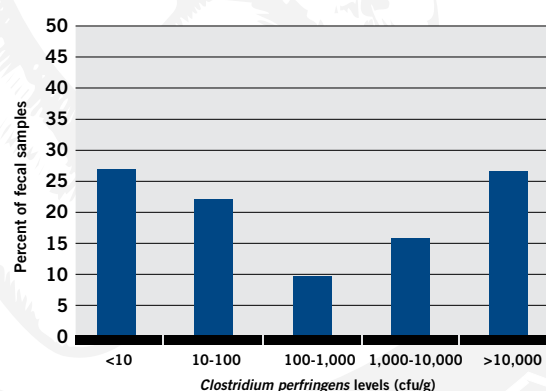


FIGURE 2: Frequency of *Clostridium perfringens* counts in Wisconsin calf fecal samples



Data on file, 2017.



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