

PRACTICE ABSTRACT # 24

Biosecurity, resistance, and helminth parasites of grazing ruminants

Helminths are a major cause of production losses in grazing ruminants. Prophylactic control with broad spectrum anthelmintics is no longer sustainable due to growing resistance, and more sustainable control measures are now needed.

production losses, but often fly under the radar due to their tendency to cause subclinical infection.

Helminth parasites affect sheep, goats, and cattle. It is estimated that helminth infections lead to over €300m per year in anthelmintic is used. production losses in Europe.

spectrum anthelmintics was effective, however, in recent years resistance has major classes of emerged in all anthelmintics and presents a serious threat to the sustainability of outdoor grazing ruminant farming.

Sustainable worm control practices are a growing area of interest in parasite control implications important have and biosecurity.

A wide range of helminth parasites can A key component of many sustainable worm infect grazing ruminants, with the most control practices is the maintenance severe pathologies being due to infection of anthelmintic susceptible parasite with gastrointestinal nematodes. However, populations. This allows resistance traits to flukes are also responsible for significant be diluted out when populations mix, preserving the efficacy of anthelmintics.

> Another key feature of sustainable worm control is testing for resistance before treating, which prevents selecting for resistance by ensuring that the correct

It is also important to test animals before For many years prophylactic use of broad they are introduced to a new pasture or herd, to prevent pasture contamination with helminth eggs shed in faeces.

> Helminth parasites are an unavoidable hazard of outdoor grazing systems

Resistance is a serious problem, but sustainable control is possible and practical

Testing before treating is extremely important to preserve anthelmintic efficacy

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