



EIPWALES

Cydweithio er ffyniant gwledig
Collaborating for rural success



Improving the diagnosis and treatment of gastrointestinal round worms in cattle

Concerns are raising over the efficacy of wormers being used to treat gastrointestinal roundworm and whether certain species of parasites are developing resistance to treatments. The use of Faecal Egg Count (FEC) sampling is uncommon in cattle-based systems, but it is vital for the effective management of the problem.

Project outline

Assess how a combination of FEC testing, FECPAKG2 technology, resistance testing, speciation testing and predictive models can improve the management of roundworms in dairy young-stock on three farms by:

- improving detection of roundworms
- determining current anthelmintic resistance
- improving targeting of anthelmintic treatments
- determining the species of parasite burdens and the appropriate treatment
- slowing down the development of anthelmintic resistance in roundworm populations
- validating a model that predicts which fields have the highest worm burden
- improving the health of young-stock and increase live weight gains



ADAS expertise

ADAS is the project facilitator providing help and advice to project participants by:

- preparing application forms
- procurement
- overseeing delivery to time and budget
- report writing
- providing technical advice through its experienced consultants





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Gwella diagnosis a thriniaeth llyngyr gastroberfeddol mewn gwartheg

Gwelir pryderon cynyddol ynglŷn ag effeithiolrwydd triniaethau llyngyr mewn gwartheg, a ph'un a fyddai mathau penodol o barasitiaid yn datblygu ymwrthedd i driniaethau. Mae defnyddio samplau cyfrif wyau ysgarthol (FEC) yn anghyffredin mewn systemau gwartheg, ond mae eu defnydd yn hanfodol er mwyn rheoli'r broblem yn effeithiol.

Amlinelliad o'r prosiect

Asesu sut gall defnyddio cyfuniad o brofion FEC, gan ddefnyddio technoleg FECPAKG2, profion ymwrthedd, profion rhywogaethau a modelau rhagfynegol wella rheolaeth llyngyr mewn stoc ifanc ar dair fferm laeth drwy:

- Wella'r dull o ganfod llyngyr
- Canfod ymwrthedd presennol
- Canfod rhywogaethau'r baich parasitiaid a'r fethodoleg fwyaf addas
- Arafu datblygiad ymwrthedd anthelminitig mewn poblogaethau llyngyr
- Dilysu model sy'n rhagweld ym mha gae mae'r baich llyngyr ar ei uchaf
- Darparu gwybodaeth ar gyfer datblygu strategaethau i reoli llyngyr ar y fferm
- Gwella iechyd y stoc ifanc a sicrhau gwell cynnydd pwysau byw



Arbenigydd ADAS

ADAS yw hwylusydd y prosiect yn darparu cymorth a chynngor i gyfranogwyr y prosiect drwy:

- baratoi ffurflenni
- caffael
- oruchwylio cyllideb a threfn amser
- ysgrifennu adroddiadau
- ddarparu cynngor technegol trwy ei hymgyngorwyr profiadol

