

# Surveillance of sheep and beef cattle diseases: Farmer opinions and behaviour



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#### **BACKGROUND**

Qualitative research methods provide more insight into opinions and thoughts of participants. Focus group discussions were conducted with beef cattle and sheep farmers to investigate the feasibility and value of a new surveillance system for important livestock diseases that benefits both producers and the industry.

#### **METHODS**

Separate focus groups were held for sheep and beef farmers in the Midlands, North and Southwest of England (Fig. 1 & 2):

- Semi-structured guidelines
- Audio-recordings

## Thematic analysis:

- Qualitative analysis through identifying themes
- Evidenced by farmers' quotes

#### SHEEP FARMERS (14 IN TOTAL)

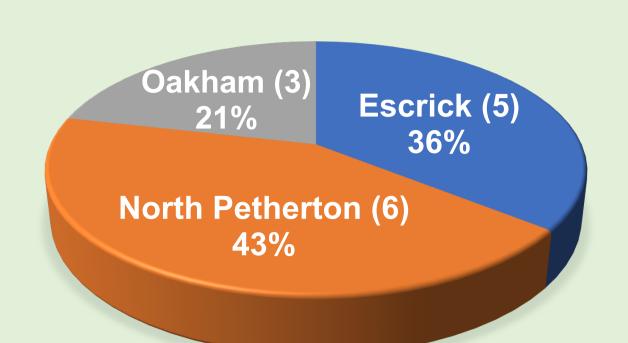




Fig. 1. Number of farmers for sheep groups



Oakham (2) Escrick (3) 20% 30% North Petherton (5) 50%

**CATTLE FARMERS (10 IN TOTAL)** 

Fig. 2. Number of farmers for beef groups

## 'I think it's understanding how they're transmitted as much as anything and if we had a greater understanding.' 'There's a benefit to knowing what's... what's going on in your own place. I don't think many people know that.' 'If we had more people aware of what they've got and be prepared to sum on a piece of paper, say 'this flock has achieved this sort of certification' [...] which gives you some confidence of buying from us, so that's a sort of biosecurity angle.' same thing. 'There's always a reason why something dies, it's just how much it costs to find out." 'But certainly something like enzootic [abortion], then obviously if your neighbouring farmer has it, it'll be very nice to know that, so you can be prepared for it or try to implement extra biosecurity to try and eliminate it. 1 think that's some of the [diseases] that are more important to learn about 'We only started blood testing last year

## RESULTS THEMATIC ANALYSIS

Health status own flock/herd:

Diagnostic feedback

**Biosecurity** 

Management

**Decision-making** 

Disease characteristics:

**Spread and transmission** 

Raising awareness

'At the moment I need to know is it something where I can satisfactorily fatten it and get it to something human suitable consumption or am I going to pour food into this and watch it go downhill. That's the decision. And is it going to spread and affect other cattle...



'I'd like to know how my neighbours are doing in case they ever get in with ours. We double fence to keep them away, but whereas we're a closed herd, they are going buying from markets and bringing cows and calves in next doors. So we have to keep vaccinating because they could be bringing something that gets to ours, as they're naïve to it.'

'We tend to keep a closed herd, we just buy good pedigree bulls occasionally when we need them, and we rear our own, so we haven't got no issues really with any diseases.'

'To be fair: I don't know a lot about TB. I don't know if deer can give it to the cows, I don't know if there's TB in the badger population... But you know, don't really know a lot about TB and I probably wouldn't until I...until I got it.'

'If we can use [a monitoring system] to raise the awareness to get people to do something, yes. I think that's the key, raising awareness.'

'It needs to be... yes for [the lab results], it can't just be a couple of calves got scours [...] 'cause that could be any number of reasons [...], it needs to be diagnosed through a lab."

'It would be useful to know if a disease is on the increase or on the decrease, I think.

'I don't care what I buy at market, as long as I can see it's big boned, big frame, it's gonna make money, three hundred quid you know in no time at all... gone...I don't care who buys it, I just want that money.'

## SO... WHAT'S NEXT?

and I didn't realise I had a problem until I

blood tested. But when I found that

about sixteen percent of my ewes had

got Johne's, I had to make a decision

[...] and so therefore we're culling as

fast as we can.'

Pilot surveillance system launched for farmers:

- 5 sheep diseases and 5 cattle diseases selected
- Focus group participants
- 2000 farmers from across England
- Invite to complete annual questionnaire (online)
  - March 2018: record diseases diagnosed in 2017
  - Jan/Feb 2019: record diseases diagnosed in 2018

diseases and the ones

that less people talk

about... you know, CLA,

Johne's...Maedi-Visna...

Value and importance of other data sources?

- Post mortem examinations
- Dairy (e.g. Johne's testing of milk samples)
- Abattoir records
- Lab test results

## **ACKNOWLEDGEMENTS**

Dr Rachel Clifton and the Green Research Group AHDB Beef & Lamb All participants in the studies

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