LIVESTOCK

faccines and tools to control BVD have been around for years in the UK, yet the industry is no further forward in controlling the disease that is costing up to £50m annually

Part of the problem with BVD control is the lack of disease-specific symptoms, with as many as 80% of herds thought to be infected with the disease - a sure sign that many don't know it's there.

The other issue is there is no simple route to eradicating it. A shot of vaccine may help along the way, but it certainly won't stamp it out or stop the spread.

But with Scotland now in the process of rolling out an eradication scheme, many producers are going to have to think about individual farm BVD status, not only to secure trade north of the border, but also to maintain efficient animals at a time when margins are being squeezed.

And two farmers thinking about the trade implications and going out of their way to make sure BVD is not an issue in their herds are dairy farmer Tony Smith and suckler producer David Neve, both farming near the Scottish borders

Tag and testing in the dairy herd

Mr Smith, who milks 190 cows in Cumrew, north Cumbria, says although BVD is not a big problem on his farm, tag and testing calves is being used as a way of monitoring

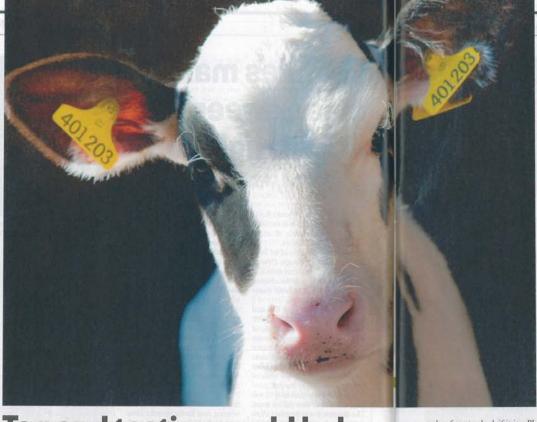
"The main advantage of me monitoring BVD is to say with confidence that my breeding heifers and stores are clear, which, being in the north of England, opens up a significant market in Scotland.

"We are also not running an efficient herd if we have got a sick animal. We can not afford to carry a BVD cow or calf in a dairy herd.

Ear tags used in tag and test look like a normal tag and are applied in the usual way but, when the tag is applied, an ear tissue sample is collected in a barcoded vial attached to the tag applicator. This vial can then test system means all calves tag and be sent for analysis.

Mr Smith routinely tests for BVD through bulk milk screening and also vaccinates all of the cows. He sees the tag and test method as a way of "finishing the job off" and as an insurance policy.

"We do vaccinate, which keeps the disease nailed down, but the tag and test method will allow us



Tag and testing could help achieve BVD eradication

Tag and testing calves for BVD could be a massive step forward in the control of the disease, as Sarah Trickett finds out

to pick up any persistently infected [PI] calves, if there are any, and get rid of any PIs before they have a chance to spread infection."

And at a price of about £5.99 quoted by manufacturer Fearing for a ministry-approved pair of tags which includes the test, it is cheaper than a blood test.

Mr Smith sells both stores and breeding stock, and the tag and tested clear can then be sold certified as BVD free.

The other advantage to the tag and test is the speed with which farmers find out the results, compared with other testing methods, says vet Colin Lindsay of Capontree Vets, Brampton.

blood-sample a calf as early as six attached to the tag.



"Although now it is possible to When the tag is applied, an ear tissue sample is collected in a barcoded vial

weeks of age to check if it is a PI, this is a new development. Prior to this you could only blood-sample for antibodies, and had to wait until the calf was nine months old, by which point a confirmed PI could have infected other animals.

"But the advantage of the tag and test method, which also screens for actual virus, is that calves are tagged and tested straight away, so you don't need a vet callout at six weeks. Plus the cost of tag and testing is similar to, if not cheaper than, a blood test, and you are going to tag the calf anyway," he says.

Mr Lindsay says should the test come back positive, those PI animals should then be removed from the herd, so preventing the risk of transmission to other animals and removing the costs of rearing an

Tag and testing in the beef herd

Beef farmer Mr Neve, who farms 50-60 Limousin cross cattle with his father John at Tindale Fell, had a problem with BVD several years ago, despite vaccinating after bringing two PI animals into the herd. The issue raised its head when difficult virus and can easily infect others.

125 of pregnancy, before the foetus infected with BVD? has a competent immune system. A PI animal will always give birth to Animals that contract BVD after birth are not, and will never become, Pl. They can test virus negative, but antibody positive. This animal is

BVD - WHAT YOU NEED TO KNOW

of the common cold. They have contracted the disease, but will usually recover in about four weeks. It's only when cows become infected during pregnancy that the disease can be passed on to the calf to produce a PL

what is called transiently infected,

which is like the human equivalent

[PI] animal?

a Pi calf

The BVD virus is maintained in the

herd by PI calves that are infected

in the uterus between days 42 and

* Why are PI calves an issue? Planimals are a major source of BVD infection as they are born with the

* Can you tell if an animal is

No. Symptoms, if present, can be quite generic. Calves will often not thrive, will be more susceptible to respiratory diseases and may take longer to reach target weights. Cows can also have reduced milk yields and fertility issues and be more prone to diseases such as salmonella, pneumonia and Johne's.

* Will vaccination eradicate BVD on my farm?

It can help in the fight against BVD, but it will not eradicate it. Vaccination does not deal with Planimals. They are too highly infectious and will still

be able to spread infection.

* Can BVD be spread by wild animals?

Sheep can carry BVD and can reinfect your herd, but only if they have been in contact with BVD cattle in the first place. There is little evidence to suggest wild animals pose a problem.

* How long will it take me to eradicate BVD?

Most farmers following the CHeCS scheme have eradicated BVD in under two years. Test to find your PI cattle, slaughter them, buy in BVD-free cattle or isolate bought-in cattle and test.

* If a test comes back positive does it definitely mean that animal is a PI? No test is 100%, however tag and test is very accurate. Advice from the SAC is that any positive test should be rerun to make sure it is accurate.

calvings were observed, with a blood test indicating BVD as the cause. Mr Neve then began a strict

programme of blood sampling the whole herd, which was a major financial investment in terms of screening, and removed carriers from the herd. From then on he blood tested a crop of calves at nine months old, but as Mr Neve says, he was never on top of the problem.

"Because we couldn't blood test to find whether a calf was a PI until nine months old, we were always nine months behind, so were always chasing our tail. But had we had the tag and test system back then, we would have been able to pick up PIs straight off."

Mr Neve describes the tag and test system as "revolutionary". "Tag and test will be a massive step forward for suckler producers and folk selling breeding animals. It is definitely a step in the right direction to controlling the disease," he says.

Mr Neve used to have a tight calving pattern, calving batches over 12 weeks with most giving birth in the first six weeks. But following BVD entering the herd the calving pattern has been extended.

And although he is now clear of BVD, he is continuing to screen calves using the tag and test system. "Because we are buying in cows with calf at foot, we now blood test heifers and will use one of the tags in the calf. We have also stepped up quarantine until we get the results of the test."

Mr Lindsay says the advantage of beef producers using the tag and test method is the importance of knowing you have a PI calf.

"Because beef calves are running with cows that are being served,

farmers in his area to eradicate BVD if you have to wait until six weeks of age for a blood test, the damage 20 years ago, "What's been an evemay already have been done. Also, opener for me is the lifespan of a PI and how much havoc they can the last thing any farmer wants to do is start handling cows with cause, even in vaccinated herds. It's important producers realise you young calves at foot. So putting a tag in quickly at birth is a lot easier can't pick up PIs just by looking at and safer way of testing," he says. them, you need to test." Mr Lindsay started working with sarah.trickett@rbi.co.uk



Colin Lindsay (left) of Capontree Vets, Brampton, and farmer Tony Smith testing one of his dairy calves.