Knowledge exchange for control of Johne's Disease

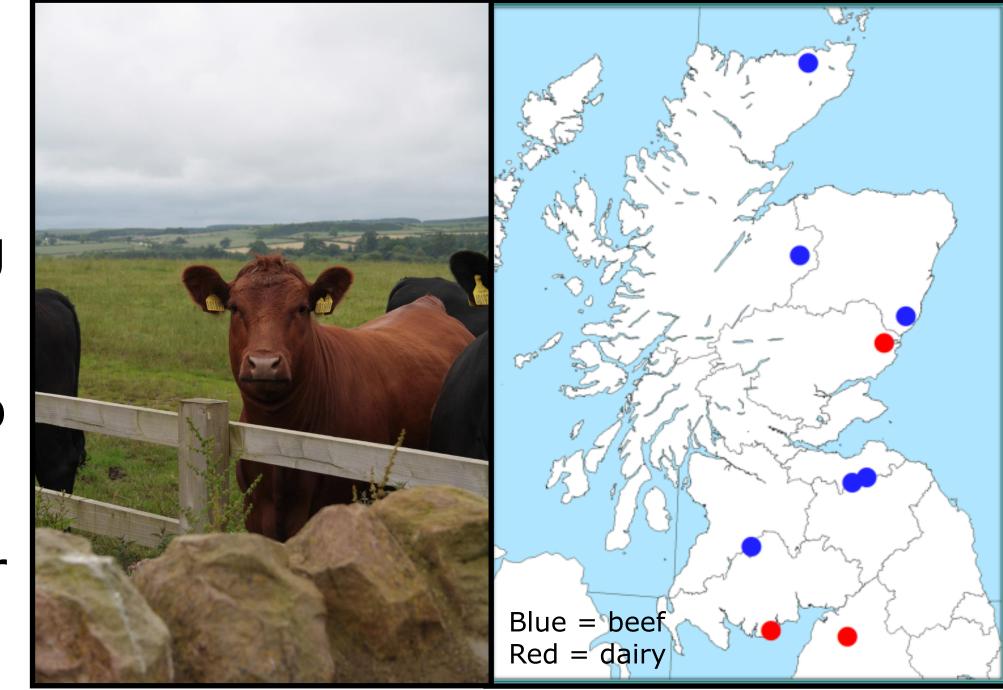
Beef Farm 4 is part of an estate and has a 300 head spring calving herd with a flock of 2500 ewes.

They produce Charolais stores, but would like to be able to sell surplus heifers for breeding as well.

This is currently not feasible because they need all their home-bred heifers for replacements.



BEEF FARM 4, SOUTH WEST



Holding pens

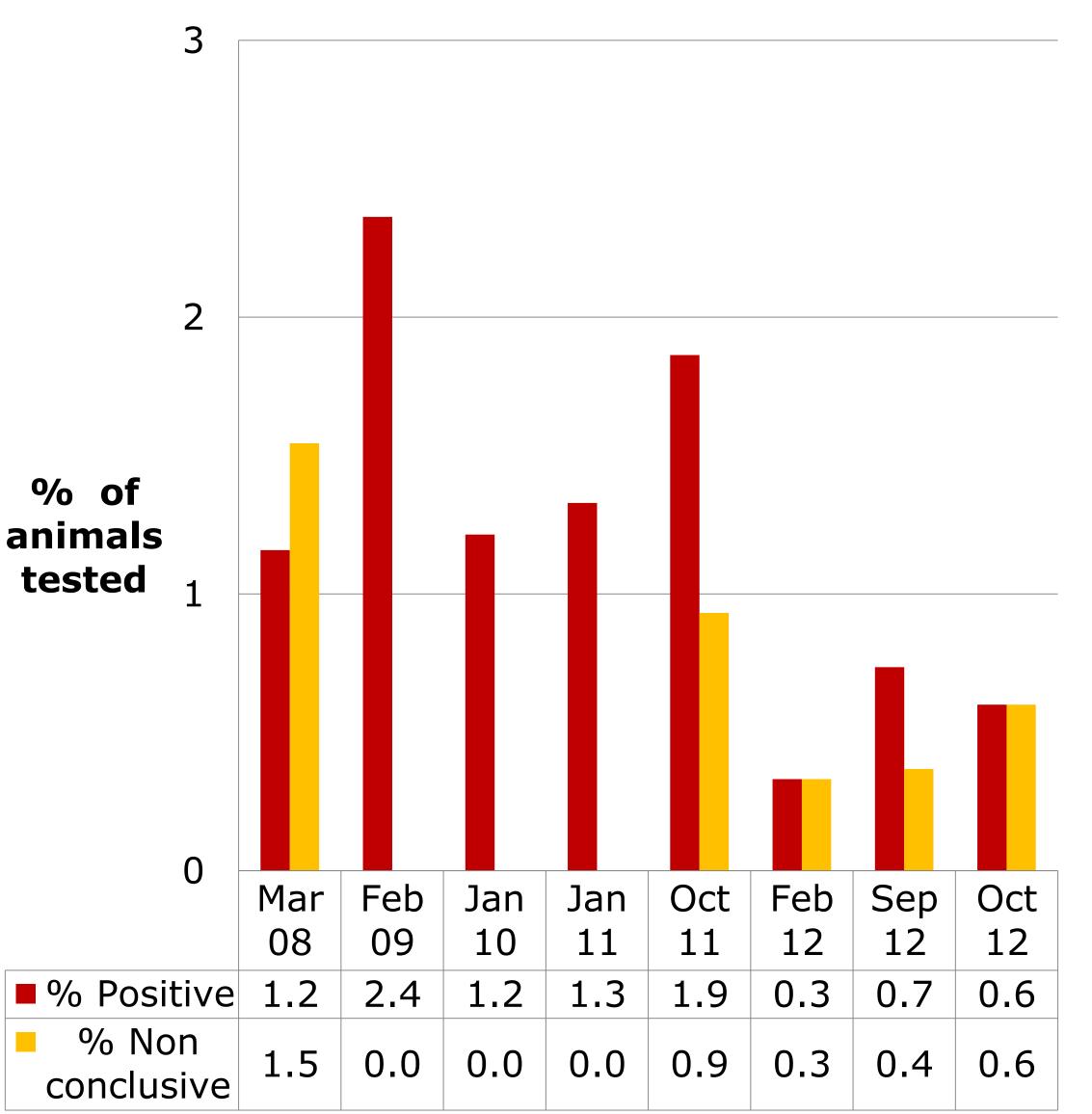
Calving pens

The cows calve indoors for management purposes, with the pen set up being ideal for this.

Cows move quickly through the pens, going out to the fields after four or five days.



Johne's on Beef Farm 4



Bull and isolation pens



Replacement heifers

The Estate has a second farm where ELISA positive cows calve and some of the herd run with the bull.

Beef Farm 4 has been testing since 2007 as part of the PCHS.

Their first case was in 2005.

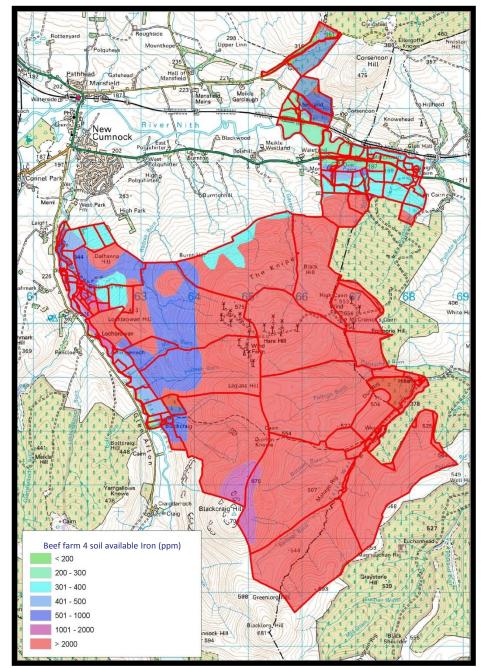
At the last three herd tests they have had one serum positive animal.

ELISA positive cows are isolated from the rest of the herd before culling. Their calves are not kept as replacements.

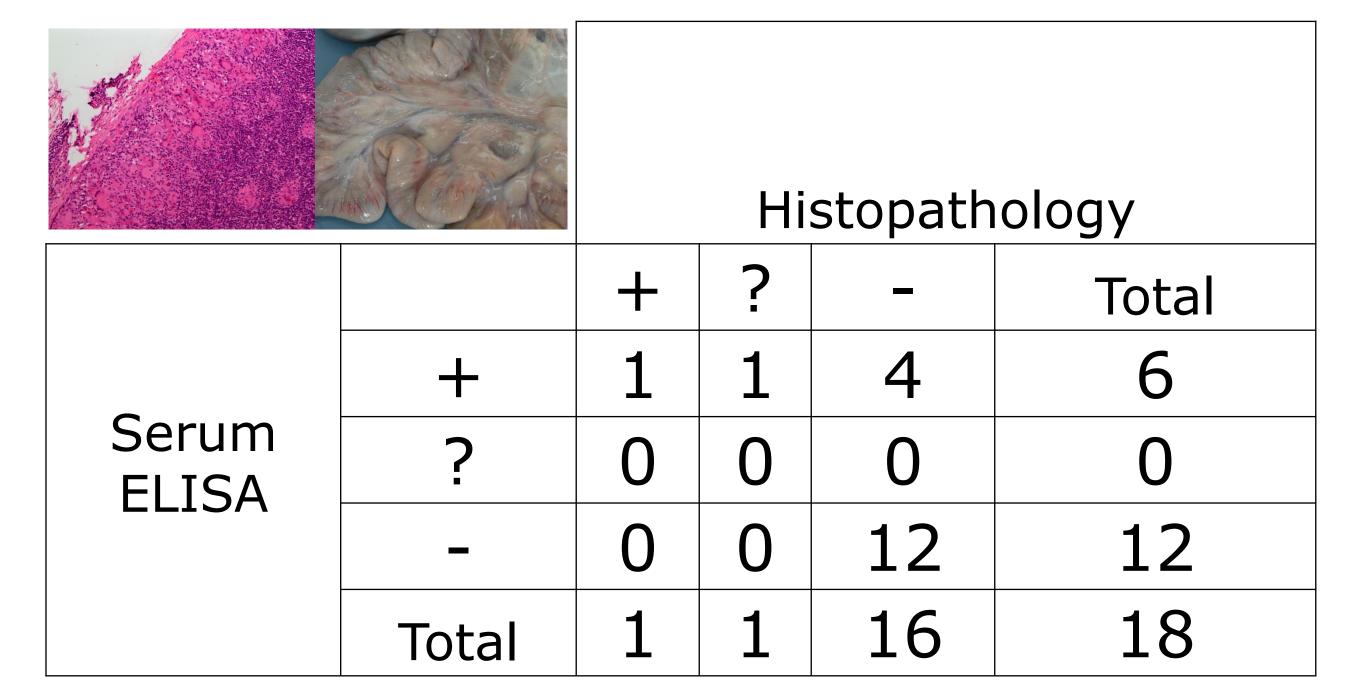
Environmental factors

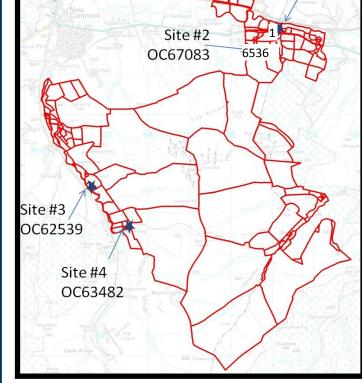
Evidence suggests that soil environmental factors play a role in the persistence of Mycobacterium avium paratuberculosis (MAP). Sample sites selected were according to soil parameters and farming activity.

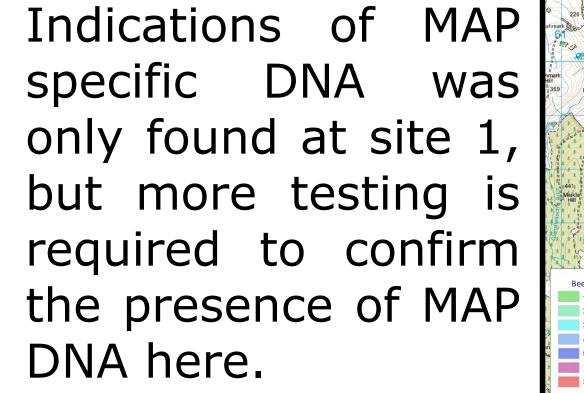




Post-mortem samples







In the animals sampled so far we have found evidence to suggest that MAP is still present on the farm, though at a low level.

With thanks to the farm for the farm photographs and Richard Irvine and Cathy Lamm of Glasgow for the post-mortem pictures.

We would like to thank the Scottish Funding Council for funding the PARABAN project.









