

Optimised surveillance for paratuberculosis

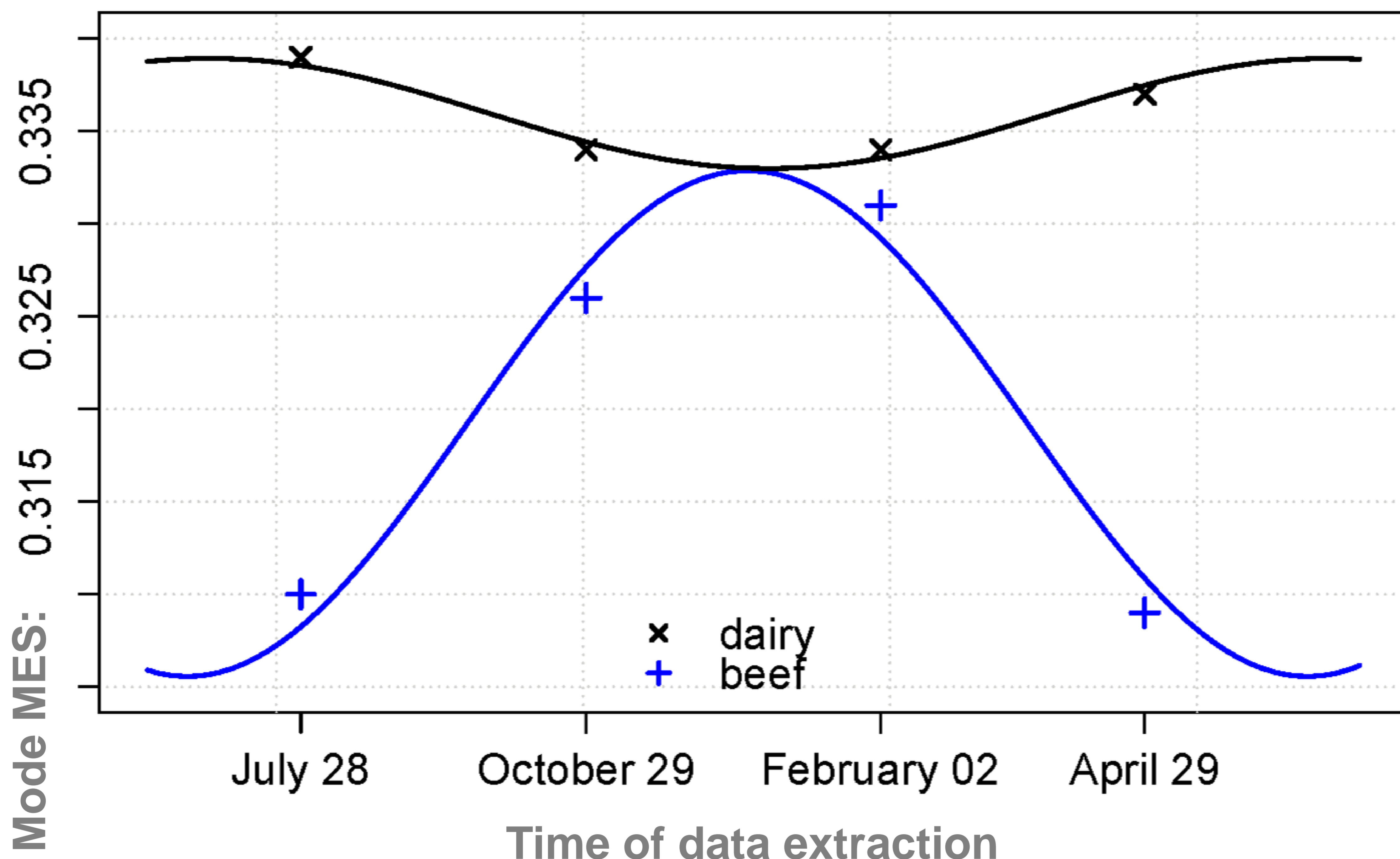
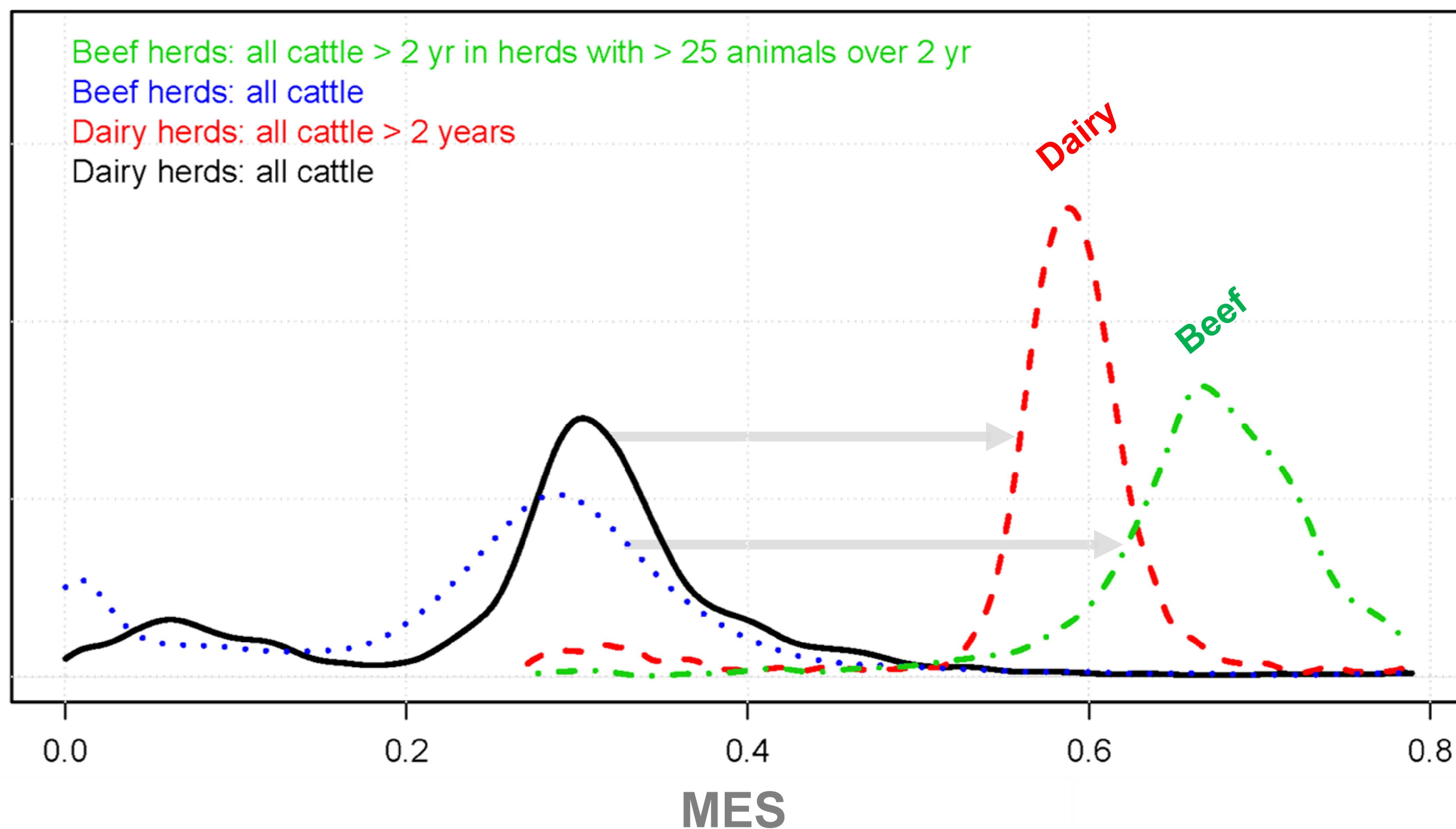
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Surveillance programs for paratuberculosis are influenced by the test sensitivity which increases with the age of the tested animal. **MES is the mean sensitivity for a herd**, based on the age distribution of the animals.

Right: The density distribution of MES based on data from 4300 Danish dairy cattle herds and 4000 beef cattle herds. While the overall MES for both beef and dairy cattle is around 30%, this can be increased to 70% and 60%, respectively, by carefully selecting the target group.



Left: The seasonal variation of MES (mode of the distribution) show that **beef herds had the most seasonal variation** (30.5% to 33.3%) due to pronounced seasonal calving. **Dairy herds had less seasonal variation** (33.3% to 33.9%).



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