

A Farm Management Monitor for the Dairy on Bulk Milk Laboratory Testing, a longitudinal case study on a high-level producing Dutch Farm

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Monthly laboratory analyses on bulk milk (presence/absence of antibodies to 14 diseases, presence of the important minerals from the feed in the right ranges, absence/presence of toxins, and the correct levels of pregnancy-indicators) and regular analyses of the drinking water, reveal all necessary basic parameters for Cultivating Trust and Transparency along the Value chain of Farm to Fork.

Monthly bulk milk samples from farms are subject to milk-serology and milk-fotometry, and laboratory results are studied in longitudinal statistical analyses to reveal upcoming diseases, flaws in feeding efficiency and presence of toxins in the silage, along with pregnancy-indicators and parameters of drinking water-quality.

This presentation shows the results of longitudinal studies of laboratory data on bulk milk derived from a farm before and after deployment of the Dairy-Farm Management Monitor (Dairy-FMM), indicating improved milk-yields (up to 15%), increased average lactation numbers (from 2.5 up to 4.0, and sufficient head-room for even higher lactation numbers), insemination numbers improved from 3.8 to 1.9, and the integral cost went down from keeping 56% of the total animal population on young stock down to 40%. Moreover, the Dairy-FMM gives full insights in the uptake of essential minerals from the feed.