









ELDC BV has made instruments that show the levels of the 5 basic blocks that measure and offer optimized support





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Based on Bulk Milk laboratory tests





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Based on Bulk Milk laboratory tests

Every 30 days a Bulk Milk sample from the milk-collection service is being tested on





Every 30 days a Bulk Milk sample from the milk-collection service is being tested on

•the main **disease parameters** that affect milk production and animal well-being





								Sc	hem	e				
Test group	Test		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Animal disease	Ab/PCR	BVDV	Χ	Χ	Х	Χ	Х	Х	Χ	Х	Χ	Х	Х	Х
	Ab	IBR-gB/gE	Х	Х	х	Х	Х	х	Х	Х	Х	Х	Х	Х
	Ab	Salmonella Bov	Х		Х		Х		Х		Х		Х	
	Ab	ParaTB	Х		Х		Х		Х		х		х	
	Ab	Fasciola	Х		Х		Х		Х		Χ		Х	
	Ab	Neospora	Х		х		Х		Х		Х		Х	
	Ab	Leptospira H/P	Х		Х		Х		Х		Χ		Х	
	Ab	Mycopl. Bovis	Х	Х	х	Х	х	х	Х	х	Х	х	Х	х
	Ab	MAA	Х	Х	Х	Х	Х	Х	Χ	Х	Х	Х	Х	Х
	Ab	Schmallenberg	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	х
	Ab	FMD	X	X	X	X	X	X	X	X	X	X	Х	X
	Ab	TB	Х		Х		Х		Х		Х		Х	
9	Ab	Brucella Bov	X		X		X		X		X		Х	





Every 30 days a Bulk Milk sample from the milk-collection service is being tested on

•the main **disease parameters** that affect milk production and animal well-being

essential minerals which ensure proper feed uptake





								Sc	hem	e				
Test group	Test		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Feed-uptake	FM	Mg <sup>2+</sup>	х	Х	Х	Х	Х	Х	Х	Х	Х	х	х	х
	FM	Se <sup>4+</sup>	х	Х	х	х	х	х	х	х	х	х	х	х
	FM	Zn <sup>2+</sup>	х	Х	Х	Х	х	Х	Х	х	Х	х	х	х
	FM	$PO_4^{3-}/P_i$	х	х	х	х	х	х	х	х	х	х	х	х
	FM	Ca <sup>2+</sup>	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х

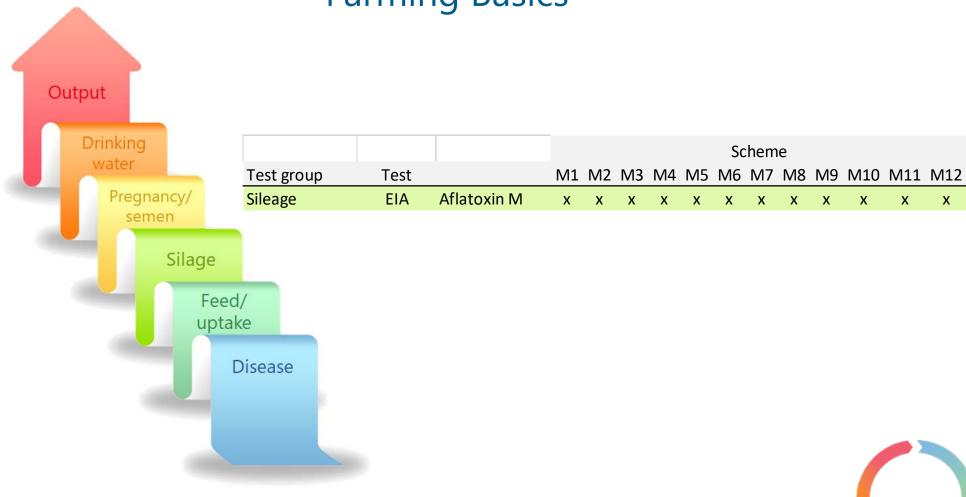




Every 30 days a Bulk Milk sample from the milk-collection service is being tested on

- •the main **disease parameters** that affect milk production and animal well-being
- essential minerals which ensure proper feed uptake
- •parameters that indicate **toxins** in the silage, **silage quality**





Dairy-FMM



Every 30 days **individual milk samples** from the milk-collection service is being tested on

- •the main **disease parameters** that affect milk production and animal well-being
- essential minerals which ensure proper feed uptake
- parameters that indicate toxins in the silage,
   silage quality
- •collection of data on **reproduction**: **pregnancy tests (lab)**, insemination-rate, step-counters/ovulation-prediction, stress-factors, etc.





Search			O				(	<b>T</b> Filter
Animal ID	Work ID	Date of birth	Last delivery	Insimination date	Insimination count	Date Sampling	Date result	Result
NLxxx	7998	05-07-2016	25-12-2023	13-02-2024	1	12-03-2024	15-03-2024	Pregnant
NLxxx	8102	05-05-2020	05-03-2024					
NLxxx	8186	05-07-2016	25-12-2023	12-02-2024	1	12-03-2024	15-03-2024	Re-check
NLxxx	8199	16-07-2015	05-03-2024					
NLxxx	8271	15-07-2018	05-03-2024					
NLxxx	8280	15-09-2022	27-12-2023	13-02-2024	1	12-03-2024	15-03-2024	Re-check
NLxxx	8285	16-07-2015	27-12-2023	13-02-2024	1	12-03-2024	15-03-2024	Pregnant
NLxxx	8292	03-04-2017	05-03-2024					
NLxxx	8376	05-05-2020	25-12-2023	12-02-2024	2	12-03-2024	15-03-2024	Pregnant
NLxxx	8387	16-07-2015	25-12-2023	13-02-2024	1	12-03-2024	15-03-2024	Pregnant
NLxxx	8391	15-07-2018	05-03-2024					
NLxxx	8395	03-04-2017	05-03-2024					





Every 180 days a water sample from the drinking tap is being tested on

- •the main **disease parameters** that affect milk production and animal well-being
- •essential minerals which ensure proper feed uptake
- parameters that indicate toxins in the silage,silage quality
- •collection of data on **reproduction**: **pregnancy tests (lab)**, insemination-rate, step-counters/ovulation-prediction, stress factors, etc.
- •Drinking water: Chemistry and Bacteriology





				Sch	eme	
Test group	Test		Q1	Q2	Q3	Q4
Drinking water	FM	pH	Х		Х	
	FM	NH <sub>4</sub> <sup>+</sup>	х		х	
	FM	Cl	Х		х	
	FM	$PO_4^{3-}/P_i$	х		х	
	FM	Fe-ttl	х		х	
	FM	Cu <sup>2+</sup>	Х		х	
	FM	Mn <sup>2+</sup>	Х		х	
	FM	NO <sub>2</sub>	х		х	
	FM	SO <sub>4</sub> <sup>2-</sup>	х		х	
	MB	Coliform	Х		х	
	MB	Enterobacteria	Х		Х	
	MB	E.Coli/Coliform	Х		х	
	MB	Yeast and mold	Х		Х	
	MB	Aerobic bacteria	Х		Х	





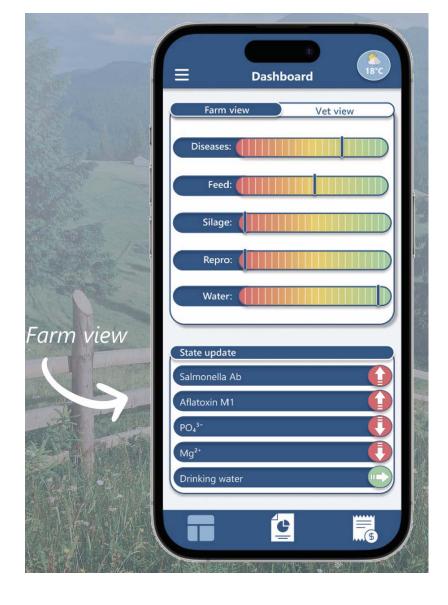
Every 30/180 days Bulk Milk/individual milk/drinking water sample is being tested on

- •the main **disease parameters** that affect milk production and animal well-being
- essential minerals which ensure proper feed uptake
- parameters that indicate toxins in the silage,silage quality
- •collection of data on **reproduction**: **pregnancy tests (lab)**, insemination-rate, step-counters/ovulation-prediction, stress factors, etc.
- Drinking water: Chemistry and Bacteriology



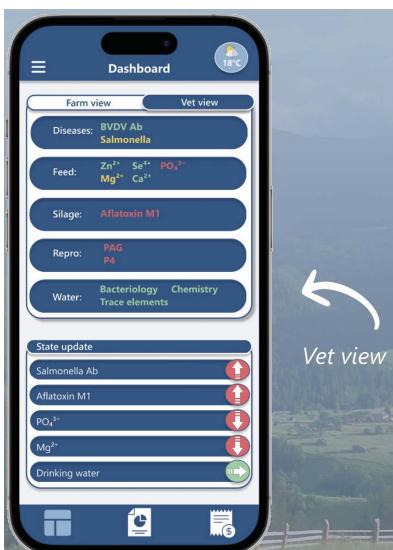
Rund/Cattle															
Foot and the	Took		N 44	N 4 2	N 4 2		N 4 F		hem		N 40	N 41 O	N 4 1 1	M12	
Test group Animal disease	Test Ab/PCR	BVDV	X	X	X	X	X	X	X	X	X	X	X	X	
Allimai discase	Ab/Ten	IBR-gB/gE	X	X	X	X	x	x	x	x	x	x	×	x	
	Ab	Salmonella Bov			х	^	x	^	x	^	X		x	^	
	Ab	ParaTB	х		x		X		х		x		x		Output
	Ab	Fasciola	х		Х		х		х		х		X		
	Ab	Neospora	Х		х		х		х		х		х		
	Ab	Leptospira H/P	Х		х		Х		х		х		х		Drinking water
	Ab	Mycopl. Bovis	х	х	х	х	х	х	х	х	х	х	х	x	
	Ab	MAA	х	х	х	х	х	х	х	х	х	х	х	x	Programcy/
	Ab	Schmallenberg	х	x	х	х	х	х	х	х	x	x	x	x	Colostrum
	Ab	FMD	x	X	х	x	х	x	х	x	x	X	x	x	
	Ab	TB	х		x		х		х		x		x		Silage
	Ab	Brucella Bov	x		х		х		х		x		x		
															Do l Feed
															well?
Feed-uptake	FM	Mg <sup>2+</sup>	х	х	х	х	х	x	х	х	х	х	х	x	Discourantests
	FM	Se <sup>4+</sup>	х	х	х	х	х	х	х	х	х	х	х	x	Disease state
	FM	Zn <sup>2+</sup>	х	х	х	х	x	х	x	х	х	x	x	х	
	FM	PO <sub>4</sub> 3-/P <sub>i</sub>	x	x	x			x	x	x	x	×	x	x	
		Ca <sup>2+</sup>				Х	X								
	FM	Ca	Х	Х	Х	Х	Х	Х	Х	Х	Х	х	Х	х	
Cileren	E1.4	0.51-4													
Sileage	EIA	Aflatoxin M	Х	Х	Х	х	Х	Х	х	Х	Х	х	х	Х	
Drognancy	EIA	Indiv.milk				.,			.,					V	
Pregnancy	EIA	maiv.mik	Х	Х	Х	Х	Х	Х	Х	X	X	х	Х	Х	
Drinking water	FM	рН	х						х						
Dilliking water	FM	NH <sub>4</sub> <sup>+</sup>	x						x						
	FM	Cl	Х						Х						
	FM	PO <sub>4</sub> <sup>3-</sup> /P <sub>i</sub>	Х						х						
	FM	Fe-ttl	Х						Х						
	FM	Cu <sup>2+</sup>	Х						х						
	FM	Mn <sup>2+</sup>	Х						х						
	FM	NO <sub>2</sub>	х						х						
	FM	SO <sub>4</sub> <sup>2-</sup>	х						х						
	MB	Coliform	х						х						
	MB	Enterobacteria	х						х						
	MB	E.Coli/Coliform	х						х						
	MB	Yeast and mold	х						х						
	MB	Aerobic bacteri	х						х						













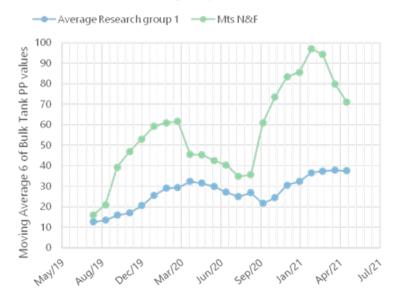








#### Research Group 1 - Salmonella Phasegroup 2

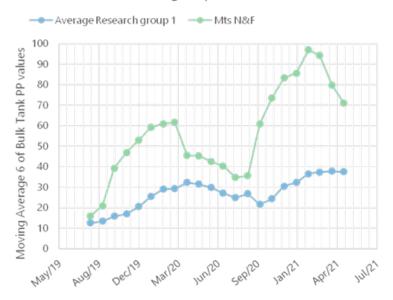




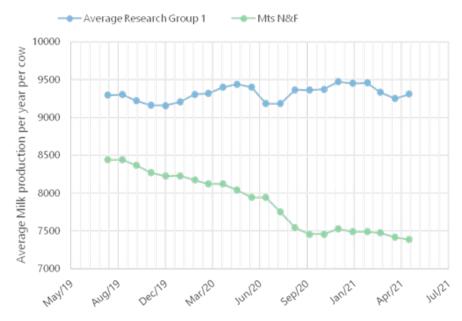
#### Select



Research Group 1 - Salmonella Phasegroup 2



#### Research Group 1 - Milk Production





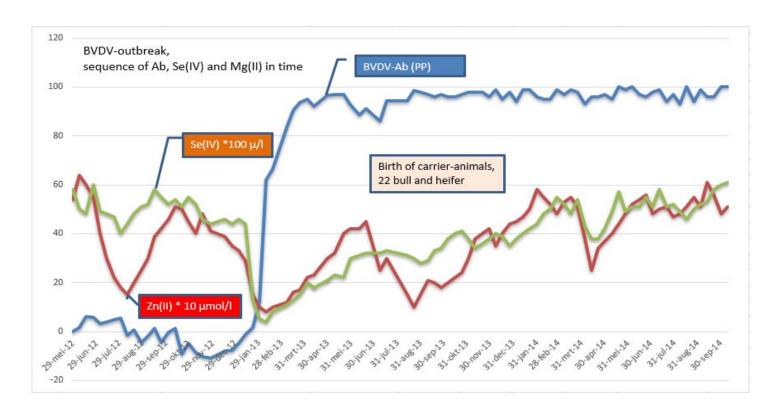
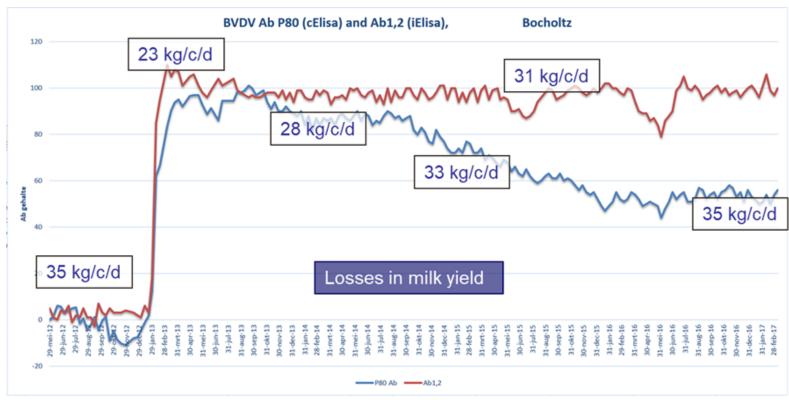


Figure 3 Levels of the **minerals Zn(II)** and **Se(IV)**, and the **BVD-Ab-level** during a **BVD-outbreak**, regular dips of the minerals indicate **feed-change** (new sileage), the dip at the vast increase of Ab to BVD during the **outbreak** depict lower levels of **resistance** as a consequence of the **outbreak**.







#### **Pros of the FMM**

- Sustainable and environmentally friendly farming
- 2 Animal welfare and cost friendly
- Control and insights in farm management
- Increased productions with less animals, supports extra lactations
- Preventive disease and essential nutrients control
- 6 Supports the choice for using feed additives



