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STUD BOOK

Logix Melk/Milk

Kudde Gesondheids Verslag / Herd Health Report

VERLORENKLOOF DEVELOPMENT

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Test-day: 2025-05-20

Friesland Cows

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HERD HEALTH SUMMARY REPORT

VERLORENKLOOF DEVELOPMENT - Friesland Cows

Table 1: Summary for Test-day 2025-05-20 (Number of Samples Tested: 65)

Analysis	Results	Norms*	% Cows outside norms*
Milk Production (kg)	Avg.: 11.9 Median: 11.4		
Butterfat (%)	Avg.: 4.87 Median: 4.82	3.5 % - 6.0 %	Too Low: 0 % Too High: 5 %
Protein (%)	Avg.: 3.69 Median: 3.70	3.0 % - 4.5 %	Too Low: 6 % Too High: 3 %
Lactose (%)	Avg.: 4.30 Median: 4.35	> 4.7 %	Too Low: 100 %
MUN (mg/dl)	Avg.: 13.63 Median: 14.00	8 - 16 mg/dl	Too Low: 0 % Too High: 15 %
SCC (x1000/ml)	Avg.: 355 Median: 131 % < 100 : 35.4 % % < 200 : 60.0 % % < 500 : 80.0 % % > 750 : 12.3 % % > 1 000 : 7.7 % % > 1 500 : 6.2 %	< 200 > 64 % > 75 % > 92 % < 4.8 % < 1 % NONE	Too High: 28.6 % Too High: 15.0 % Too High: 12.0 % Too High: 7.5 % Too High: 6.7 % Too High: 6.2 %
Butterfat Protein ratio	Average: 1.3	> 1.0	Too High: 0.0 %

Table 2: Quantification of Specific Cases (% of herd) and Loss in Production on 2025-05-20

Loss in Production due to:		Avg/Median SCC (Number (n)):	
SSC (kg per day):	51.6 (6.7 %)	1st Lact Cows:	92/71 (7)
DIM (kg per day):	206.3 (26.7 %)	2nd Lact Cows:	314/102 (19)
		3rd Lact Cows:	206/131 (17)
No. of Cows Under Pressure:	12 (18.5 %)	4th Lact Cows:	319/264 (11)
No. Cows with SCC > 200k:	26 (40.0 %)	5th Lact Cows:	923/675 (10)
No. Cows with SCC > 750k:	8 (12.3 %)	6+ Lact Cows:	236/236 (1)
No. New Infections:	6 (9.2 %)		
No. Recurring Infections:	16 (24.6 %)	Avg. SCC for SCC > 750k (n):	1516 (8)
Cure Rate for SCC > 200k:	27.3 % (6)		
Cure Rate for SCC > 750k:	66.7 % (4)	Avg. Days In Milk (DIM) for Herd:	248
No. Chronic Infections (SCC > 200k):	11 (16.9 %)	Median of DIM for Herd:	264
No. Chronic Infections (SCC > 750k):	1 (1.5 %)		
		Avg. DIM for SCC < 200k (n):	230 (39)
No. of Possible Ketosis Cases:	6	Avg. DIM for SCC > 200k and < 750k (n):	237 (18)
No. of Possible Acidosis Cases:	0	Avg. DIM for SCC > 750k (n):	355 (8)
Avg. Age at First Calf (Months):	32	Avg. Parity for Herd:	3
Avg. Inter-Calf Period (Days):	478	Avg. Parity for SCC < 200k:	3
No. Flushings:	NA	Avg. Parity for SCC > 200k and < 750k:	3
No. Embrios:	NA	Avg. Parity for SCC > 750k:	4

Table 3: Benchmark: Herd with the Top 25%, Average and Bottom 25% for different traits tested the last month of for Friesland Cows

	Milk Production (kg)	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)
Herd	11.9	4.87	3.69	4.30	355	13.63
Top 25%	41.8	4.43	3.73	5.24	41	19.82
Breed Avg	34.4	4.00	3.43	5.03	280	16.72
Bottom 25%	29.6	3.47	3.11	4.90	229	13.89

*** PLEASE CONSULT YOUR VETERINARIAN, PROFESSIONAL ANIMAL SCIENTIST or LogixMilk TECHNICAL ADVISOR for the interpretation of these results and professional advisory services.**

Table 4: Summary of Somatic Cell Counts per Lactation Group in the herd for 65 Friesland Cows

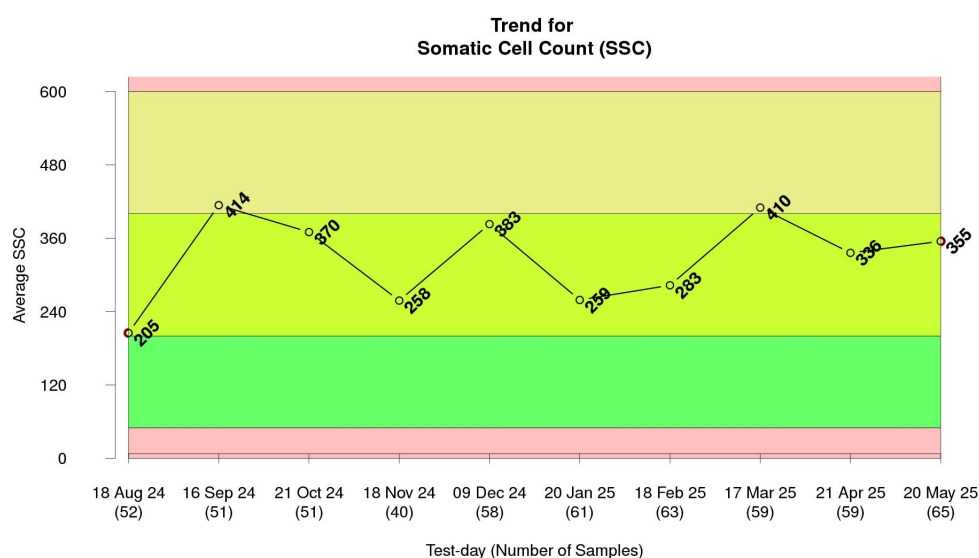
Lactation Group	% of Herd	Early Lactation	Mid Lactation	Late Lactation	% SCC > 200k	% SCC > 750k
1	10.8% (7)	0.0% (0)	4.6% (3)	6.2% (4)	1.5% (1)	0.0% (0)
2	29.2% (19)	7.7% (5)	6.2% (4)	15.4% (10)	9.2% (6)	3.1% (2)
3	26.2% (17)	1.5% (1)	3.1% (2)	21.5% (14)	7.7% (5)	0.0% (0)
4	16.9% (11)	4.6% (3)	6.2% (4)	6.2% (4)	9.2% (6)	1.5% (1)
5	15.4% (10)	1.5% (1)	1.5% (1)	12.3% (8)	10.8% (7)	7.7% (5)
6+	1.5% (1)	0.0% (0)	0.0% (0)	1.5% (1)	1.5% (1)	0.0% (0)
Herd	100% (65)	15.3% (10)	21.6% (14)	63.1% (41)	39.9% (26)	12.3% (8)

Table 5: Somatic Cell Count (SCC) Analysis: Percentage (Number) of Cows within Stage of Lactation and Lactation Group for SCC > 200k and SCC > 750k for 65 Friesland Cows

Lactation Group	Early Lactation		Mid Lactation		Late Lactation	
	% SCC > 200k	% SCC > 750k	% SCC > 200k	% SCC > 750k	% SCC > 200k	% SCC > 750k
1	0% (0)	0% (0)	0.0% (0)	0.0% (0)	25.0% (1)	0.0% (0)
2	40.0% (2)	0.0% (0)	25.0% (1)	0.0% (0)	30.0% (3)	20.0% (2)
3	100.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	28.6% (4)	0.0% (0)
4	66.7% (2)	0.0% (0)	50.0% (2)	0.0% (0)	50.0% (2)	25.0% (1)
5	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	87.5% (7)	62.5% (5)
6+	0% (0)	0% (0)	0% (0)	0% (0)	100.0% (1)	0.0% (0)

Table 6: Bulk Tank Results for 2025-05-20 (Number of Samples Tested: 0)

Tank No	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)	pH
Calculated Tank	4.81	3.62	4.32	322	14	

**Figure 1:** Somatic Cell Count (SCC) Trend

The average Somatic Cell Count (SCC) and the trend over time is shown in the graph. The ideal is a herd with an average count of less than 200 000. A higher SCC results in lower milk production and possible udder infection. If animals with high SCC can be identified early, they can be treated in time, thereby preventing production loss and permanent udder damage resulting in lower herd life.

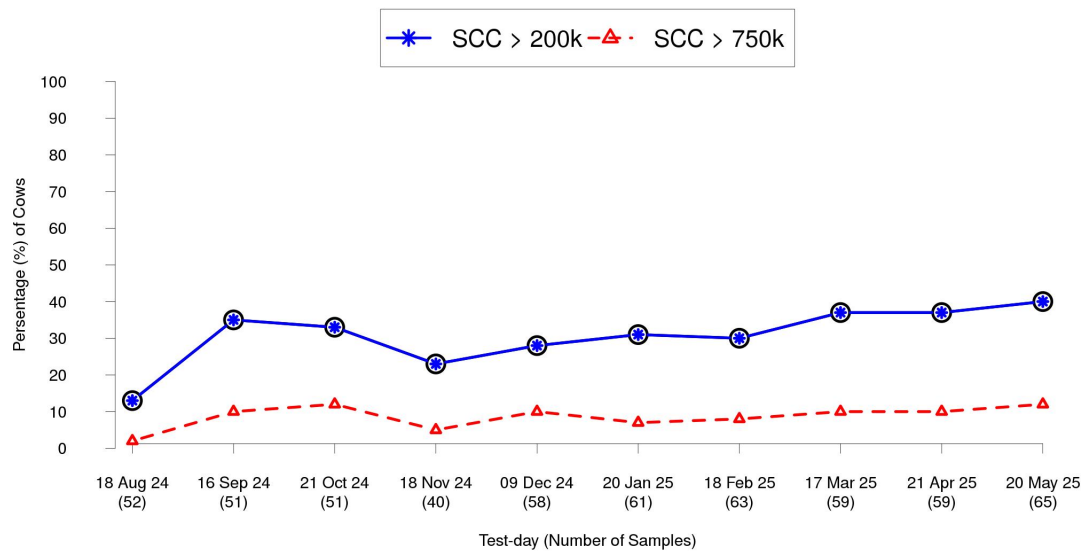


Figure 2: Percentage (%) of Cows with Somatic Cell Counts (SCC) more than 200k and 750k, respectively, per Test-day

The graph presents the trend of the % of cows with Somatic Cell Counts (SCC) more then 200k and 500k, respectively. The ideal is to have as few cows as possible with a SCC of more than 200K and none with a SCC of more than 750k.

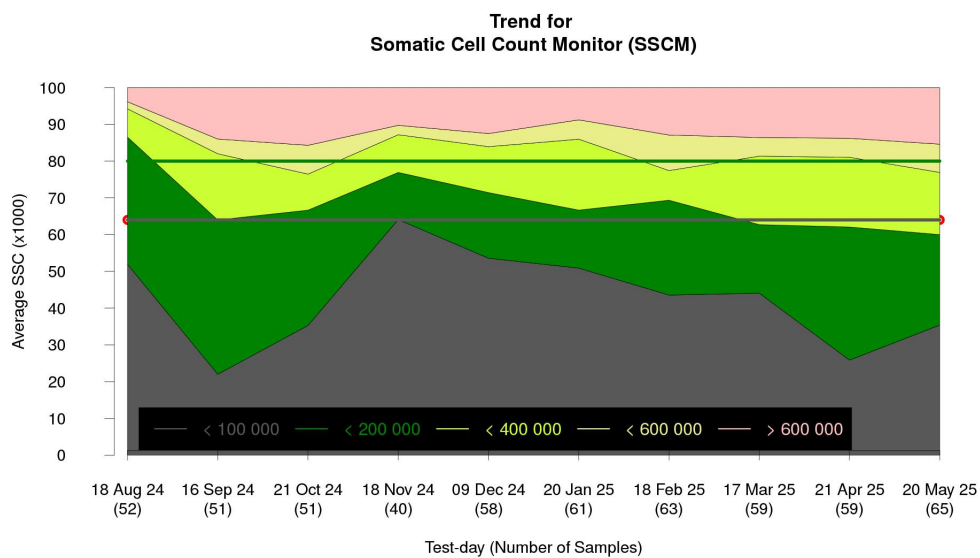


Figure 3: Somatic Cell Count (SCC) Monitor Trend

The graph shows the percentage of cows within certain Somatic Cell Count (SCC) levels. Ideally, at least 64% of the cows of a herd should have a SCC of less than 100 000 and 80% a SCC of less than 250 000. The danger zone is indicated in red, where ideally no cows should be indicated.

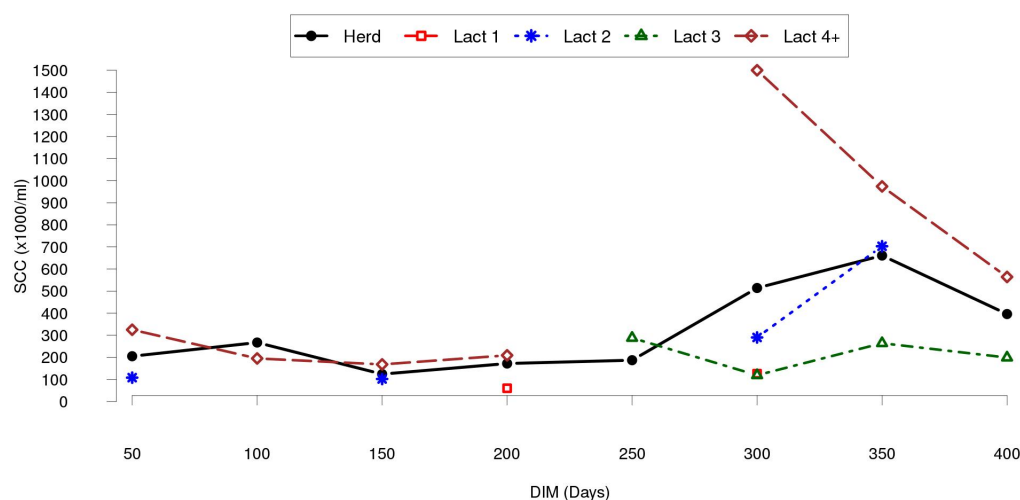


Figure 4: Average Somatic Cell Counts (SCC, x1000/ml) per Day In Milk (DIM)

This graph indicates the average Somatic Cell Counts (SCC, x1000/ml) per day in milk (DIM) for the complete herd, as well as for Lactation 1, 2, 3 and 4+ cows, separately.

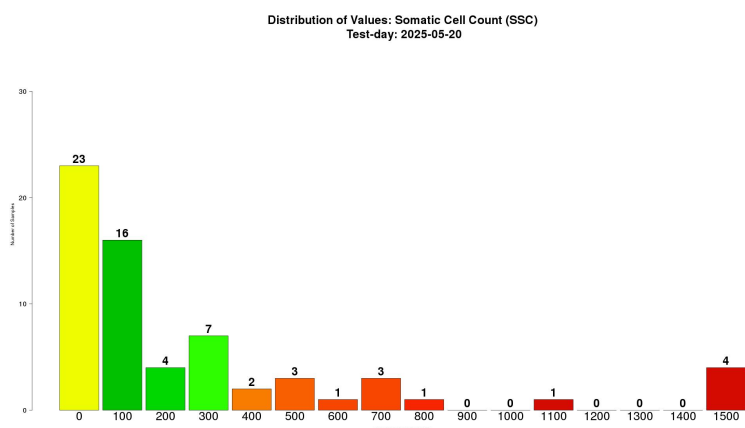


Figure 5: Somatic Cell Count (SCC) Distribution for Test-day (2025-05-20)

The graph depicts the number of animals within certain levels of Somatic Cell Counts (SCC). If the cows with SCCs higher than 600 000 can be identified early, they can be treated or even culled from the herd, preventing economic losses due to penalties paid for high SCCs in the milk.

Table 7: Somatic Cell Count (SSC) distribution and Milk Loss Monitor 2025-05-20

SSC Levels	< 100k	100k - 200k	200k - 500k	500k - 800k	800k - 1 500k	> 1 500k
Number Cows	23	16	13	7	2	4
% Cows	35.4 %	24.6 %	20.0 %	10.8 %	3.1 %	6.2 %
Milk Quality	Excellent	Very Good	Needs Improvement	Poor	Serious	BAD
% Milk Loss	< 2 %	2 - 4 %	4 - 8 %	8 - 10 %	10 - 35 %	> 35 %
% Quarters Infected	< 1 %	1 - 6 %	6 - 16 %	16 - 26 %	26 - 48 %	> 48 %

The average Somatic Cell Count (SCC) on 2025-05-20 for the herd, was 355 000. This figure places the herd in the "Yellow" SCC Zone and the milk quality Needs Improvement. Milk loss due to SCC is between 4 and 8 %.

Udder Health: Mastitis infections are evident and needs slight improvement. Check all management and control measures.

Table 8: Cows Under Pressure (SCC > 500k and Lactose % < 4.6)

Cow ID	Name	SCC	Lactose %	DIM	Parity	Production
201631	201631	2464	4.25	261	5	11.8
202017	202017	2342	4.14	330	2	7.6
201710	201710	1984	4.23	270	5	10.2
201632	201632	1820	4.27	333	5	9.8
202029	202029	1112	4.36	278	2	7
201626	201626	855	3.72	387	5	7.6
201629	201629	788	3.98	526	5	9.8
201804	201804	767	3.91	455	4	6.4
201928	201928	728	4.16	227	3	13.4
201727	201727	610	3.82	467	4	10.6
201621	201621	561	3.65	298	5	15.6
201719	201719	538	4.31	404	5	7.8

Table 9: Cows with Somatic Cell Counts > 200k (Status: N=New -, C=Chronic -, R=Recurring - and CR=Chronic and Recurring Infections)

Cow ID	Name	SCC 2025-05-20	SCC 2025-04-21	SCC 2025-03-17	Production	DIM	Parity	Status
201631	201631	2464	588	2048	11.8	261	5	C
202017	202017	2342	191	-	7.6	330	2	R
201710	201710	1984	553	3251	10.2	270	5	C
201632	201632	1820	303	670	9.8	333	5	CR
202029	202029	1112	647	116	7	278	2	R
201626	201626	855	833	1857	7.6	387	5	CR
201629	201629	788	782	653	9.8	526	5	CR
201804	201804	767	126	305	6.4	455	4	R
201928	201928	728	387	44	13.4	227	3	R
201727	201727	610	1217	265	10.6	467	4	CR
201825	201825	562	-	-	16.8	20	4	N
201621	201621	561	384	339	15.6	298	5	CR
201719	201719	538	3352	51	7.8	404	5	R
202018	202018	455	250	73	11.2	180	2	R
202101	202101	410	123	95	11.4	99	2	N
201705	201705	396	902	252	11.6	338	3	C
201921	201921	385	438	208	9.8	458	3	C
201734	201734	365	116	55	12.6	186	4	N
201944	201944	353	-	-	21.8	14	3	N
202011	202011	350	143	109	9.6	326	2	R
201813	201813	316	144	97	15.4	78	4	N
202214	202214	309	268	281	11.8	266	1	CR
201917	201917	274	69	62	8.8	395	3	R
201902	201902	264	81	956	14.4	103	4	R
201611	201611	236	250	233	9	388	6	CR
202121	202121	231	-	-	17.6	14	2	N

Table 10: Possible Ketosis Cases; Cows under 100 days in milk (Prot. Fat Ratio < 0.68 for Jerseys and < 0.74 for other Breeds)

Cow ID	Name	Production	DIM	Parity	Prot % to Fat %	Breed
202121	202121	17.6	14	2	0.61	FLD
202101	202101	11.4	99	2	0.64	FLD
202124	202124	17.3	21	2	0.68	FLD
201944	201944	21.8	14	3	0.69	FLD
201825	201825	16.8	20	4	0.72	FLD
201813	201813	15.4	78	4	0.73	FLD

Table 11: Possible Acidosis Cases (Protein % > Butterfat %)

Cow ID	Name	Production	DIM	Parity	Prot % to Fat %
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Table 12: Dry Cows with a Dry Period more than 55 Days

Cow ID	Name	Breed	Last ICP	Avg. ICP	No. ICPs	Days Since Last Calf	Days Open
202027	202027	FLD	-	-	-	522	366
202112	202112	FLD	-	-	-	580	254

Table 13: Cows with an active Inter-Calving Period (ICP) > 400 days

Cow ID	Name	Breed	Last ICP	Avg. ICP	No. ICPs	Days Since Last Calf	Production
201818	201818	FLD	456	456	1	707	7.8
201802	201802	FLD	460	520	2	611	13.6
VKL 190044	201944	FLD	614	614	1	584	21.8
202112	202112	FLD	-	-	-	580	-
VKL 190009	201909	FLD	360	391	2	565	16.8
201629	201629	FLD	470	483	3	531	9.8
VKL 210013	202113	FLD	-	-	-	523	17
202027	202027	FLD	-	-	-	522	-
202121	202121	FLD	-	-	-	499	17.6
VKL 180015	201815	FLD	280	404	2	483	-
VKL 160019	201619	FLD	512	478	4	480	-
201727	201727	FLD	544	479	3	472	10.6
VKL 190021	201921	FLD	408	408	1	463	9.8
202124	202124	FLD	-	-	-	460	17.3
201804	201804	FLD	328	409	3	460	6.4
VKL 190031	201931	FLD	427	427	1	459	8
VKL 180029	201829	FLD	518	491	2	459	12.6
201827	201827	FLD	460	529	2	455	-
VKL 180025	201825	FLD	377	523	2	445	16.8
201713	201713	FLD	463	497	3	429	-
201723	201723	FLD	360	432	3	418	8.8
201719	201719	FLD	425	411	4	408	7.8
202133	202133	FLD	-	-	-	405	12.8
201917	201917	FLD	383	484	2	400	8.8