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STUD BOOK

Logix Melk/Milk

Kudde Gesondheids Verslag / Herd Health Report

VERLORENKLOOF DEVELOPMENT

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Test-day: 2025-07-14

Friesland Cows

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HERD HEALTH SUMMARY REPORT

VERLORENKLOOF DEVELOPMENT - Friesland Cows

Table 1: Summary for Test-day 2025-07-14 (Number of Samples Tested: 59)

Analysis	Results	Norms*	% Cows outside norms*
Milk Production (kg)	Avg.: 9.8 Median: 9.4		
Butterfat (%)	Avg.: 4.85 Median: 4.79	3.5 % - 6.0 %	Too Low: 0 % Too High: 3 %
Protein (%)	Avg.: 3.56 Median: 3.51	3.0 % - 4.5 %	Too Low: 10 % Too High: 2 %
Lactose (%)	Avg.: 4.28 Median: 4.32	> 4.7 %	Too Low: 100 %
MUN (mg/dl)	Avg.: 11.35 Median: 11.30	8 - 16 mg/dl	Too Low: 3 % Too High: 0 %
SCC (x1000/ml)	Avg.: 428 Median: 159 % < 100 : 16.9 % % < 200 : 55.9 % % < 500 : 79.7 % % > 750 : 13.6 % % > 1 000 : 8.5 % % > 1 500 : 6.8 %	< 200 > 64 % > 75 % > 92 % < 4.8 % < 1 % NONE	Too High: 47.1 % Too High: 19.1 % Too High: 12.3 % Too High: 8.8 % Too High: 7.5 % Too High: 6.8 %
Butterfat Protein ratio	Average: 1.4	> 1.0	Too High: 0.0 %

Table 2: Quantification of Specific Cases (% of herd) and Loss in Production on 2025-07-14

Loss in Production due to:		Avg/Median SCC (Number (n)):	
SSC (kg per day):	42.4 (7.3 %)	1st Lact Cows:	312/229 (7)
DIM (kg per day):	187.0 (32.3 %)	2nd Lact Cows:	451/146 (19)
No. of Cows Under Pressure:	12 (20.3 %)	3rd Lact Cows:	298/159 (15)
No. Cows with SCC > 200k:	26 (44.1 %)	4th Lact Cows:	270/160 (8)
No. Cows with SCC > 750k:	8 (13.6 %)	5th Lact Cows:	786/159 (10)
No. New Infections:	7 (11.9 %)	6+ Lact Cows:	0/ (0)
No. Recurring Infections:	18 (30.5 %)	Avg. SCC for SCC > 750k (n):	1871 (8)
Cure Rate for SCC > 200k:	65.2 % (15)	Avg. Days In Milk (DIM) for Herd:	265
Cure Rate for SCC > 750k:	83.3 % (5)	Median of DIM for Herd:	282
No. Chronic Infections (SCC > 200k):	4 (6.8 %)	Avg. DIM for SCC < 200k (n):	263 (33)
No. Chronic Infections (SCC > 750k):	1 (1.7 %)	Avg. DIM for SCC > 200k and < 750k (n):	273 (18)
No. of Possible Ketosis Cases:	4	Avg. DIM for SCC > 750k (n):	253 (8)
No. of Possible Acidosis Cases:	0	Avg. Parity for Herd:	3
Avg. Age at First Calf (Months):	32	Avg. Parity for SCC < 200k:	3
Avg. Inter-Calf Period (Days):	481	Avg. Parity for SCC > 200k and < 750k:	2
No. Flushings:	NA	Avg. Parity for SCC > 750k:	4
No. Embrios:	NA		

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	9.8	4.85	3.56	4.28	428	11.35
Top 25%	41.1	4.66	3.61	4.82	29	15.02
Breed Avg	34.2	4.25	3.37	4.66	227	12.03
Bottom 25%	28.2	3.78	3.09	4.54	167	8.74

*** 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 59 Friesland Cows

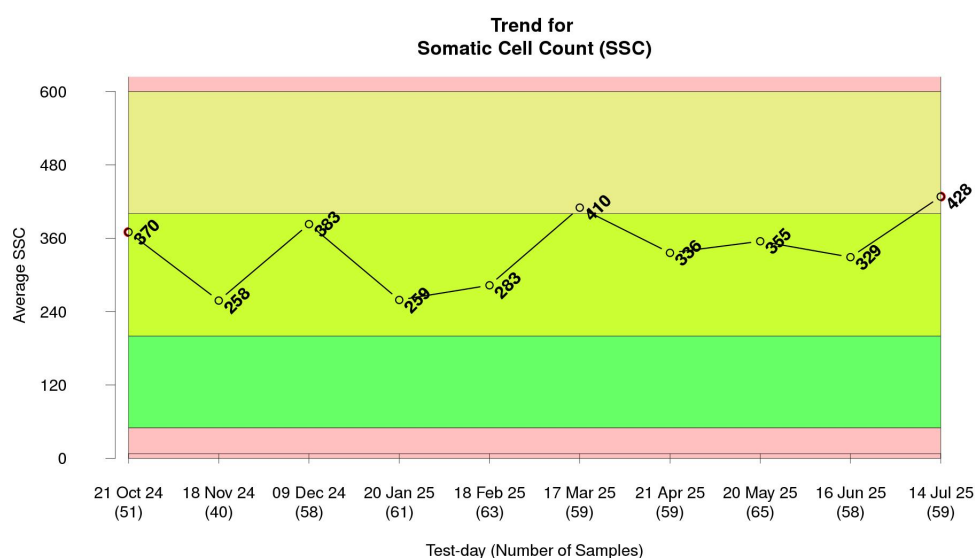
Lactation Group	% of Herd	Early Lactation	Mid Lactation	Late Lactation	% SCC > 200k	% SCC > 750k
1	11.9% (7)	0.0% (0)	0.0% (0)	11.9% (7)	8.5% (5)	0.0% (0)
2	32.2% (19)	5.1% (3)	8.5% (5)	18.6% (11)	10.2% (6)	3.4% (2)
3	25.4% (15)	1.7% (1)	1.7% (1)	22.0% (13)	10.2% (6)	1.7% (1)
4	13.6% (8)	3.4% (2)	3.4% (2)	6.8% (4)	6.8% (4)	1.7% (1)
5	16.9% (10)	3.4% (2)	3.4% (2)	10.2% (6)	8.5% (5)	6.8% (4)
6+	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
Herd	100% (59)	13.6% (8)	17% (10)	69.5% (41)	44.2% (26)	13.6% (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 59 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)	71.4% (5)	0.0% (0)
2	66.7% (2)	33.3% (1)	20.0% (1)	0.0% (0)	27.3% (3)	9.1% (1)
3	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	46.2% (6)	7.7% (1)
4	50.0% (1)	0.0% (0)	50.0% (1)	50.0% (1)	50.0% (2)	0.0% (0)
5	50.0% (1)	0.0% (0)	50.0% (1)	50.0% (1)	50.0% (3)	50.0% (3)
6+	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)

Table 6: Bulk Tank Results for 2025-07-14 (Number of Samples Tested: 0)

Tank No	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)	pH
Calculated Tank	4.82	3.54	4.29	446	11	

**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.

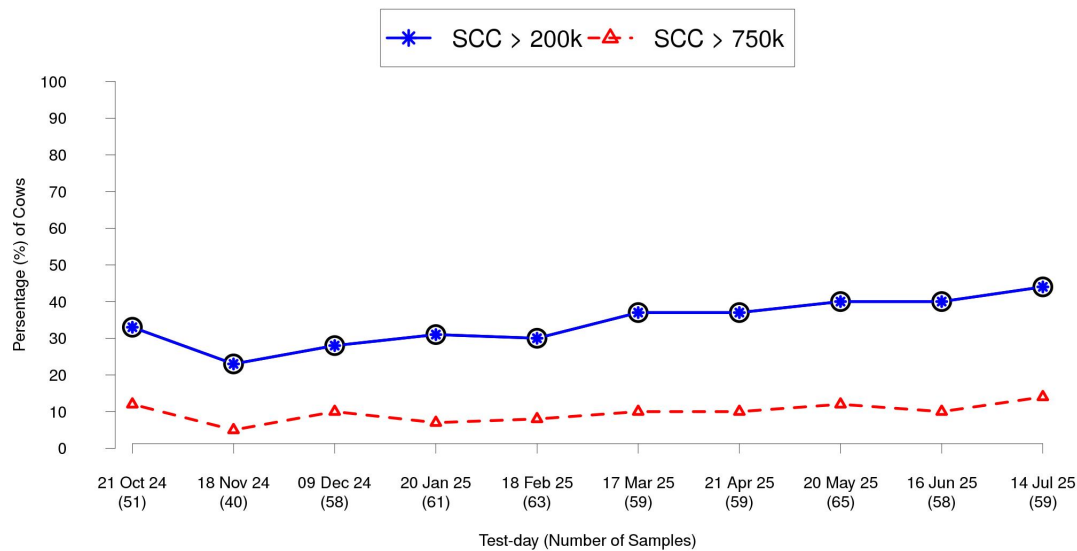


Figure 2: Percentage (%) of Cows with Somatic Cell Counts (SCC) more than 200k and 750k, respectively, per Test-day

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.

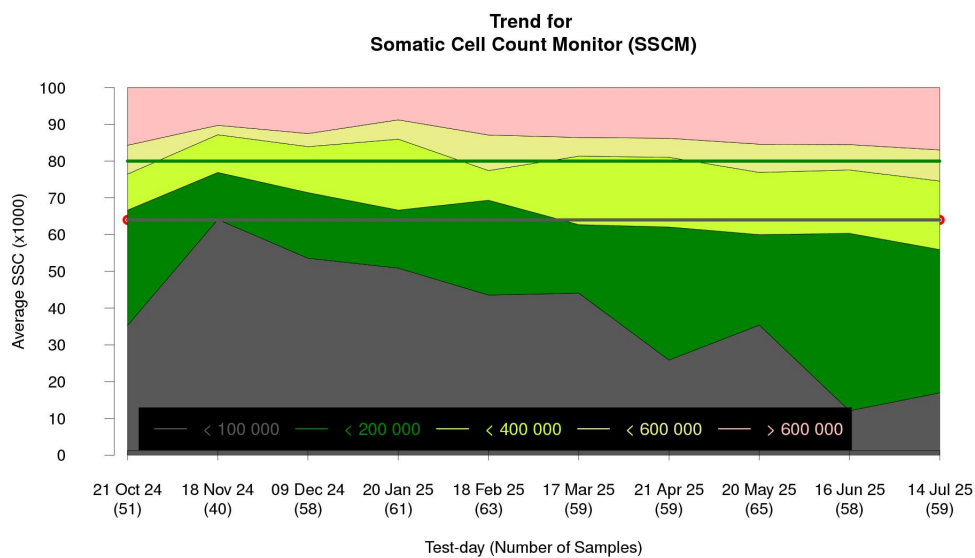


Figure 3: Somatic Cell Count (SCC) Monitor Trend

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.

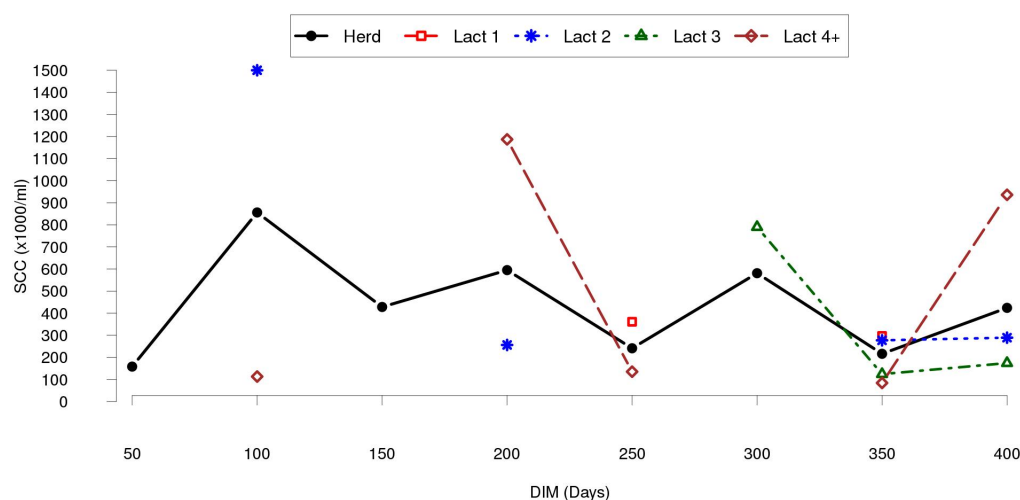


Figure 4: Average Somatic Cell Counts (SCC, x1000/ml) per Day In Milk (DIM)

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.

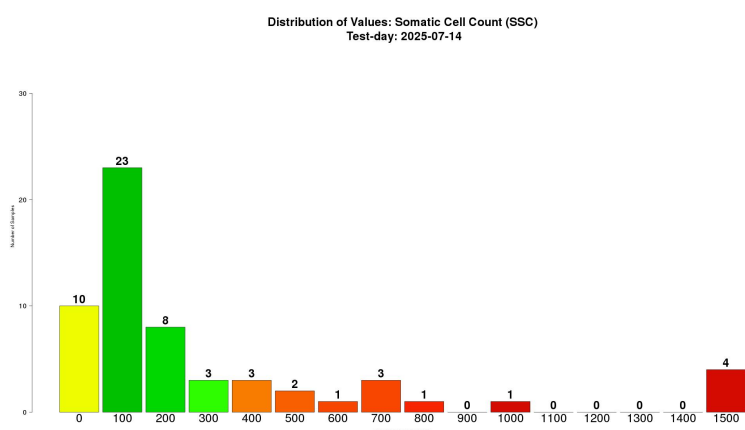


Figure 5: Somatic Cell Count (SCC) Distribution for Test-day (2025-07-14)

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 2025-07-14

SSC Levels	< 100k	100k - 200k	200k - 500k	500k - 800k	800k - 1 500k	> 1 500k
Number Cows	10	23	14	6	2	4
% Cows	16.9 %	39.0 %	23.7 %	10.2 %	3.4 %	6.8 %
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 2025-07-14 for the herd, was 428 000. 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
202121	202121	4494	4.19	69	2	12.6
201820	201820	3353	4.07	153	5	13
201621	201621	2073	3.00	353	5	7.8
201809	201809	1659	4.22	282	3	10.2
201626	201626	1013	3.30	442	5	6
201613	201613	838	3.89	265	5	11.6
202128	202128	775	4.46	325	2	6
201813	201813	760	4.37	133	4	13
202220	202220	713	4.50	234	1	8
202115	202115	604	4.22	166	2	9.2
201723	201723	576	4.54	468	4	7.2
202017	202017	516	4.13	385	2	6.4

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 2025-07-14	SCC 2025-06-16	SCC 2025-05-20	Production	DIM	Parity	Status
202121	202121	4494	114	231	12.6	69	2	R
201820	201820	3353	227	74	13	153	5	R
201621	201621	2073	713	561	7.8	353	5	CR
201809	201809	1659	98	45	10.2	282	3	R
201626	201626	1013	1272	855	6	442	5	CR
201613	201613	838	237	69	11.6	265	5	R
202128	202128	775	152	46	6	325	2	R
201813	201813	760	188	316	13	133	4	R
202220	202220	713	632	31	8	234	1	N
202115	202115	604	163	72	9.2	166	2	R
201723	201723	576	180	152	7.2	468	4	R
202017	202017	516	198	2342	6.4	385	2	R
202211	202211	468	193	30	8.6	319	1	N
202028	202028	417	116	111	8.8	209	3	N
201928	201928	402	775	728	7	282	3	CR
201929	201929	348	108	50	9	382	2	R
201921	201921	318	398	385	6.8	513	3	C
202005	202005	308	159	92	8	271	3	R
202214	202214	296	158	309	10	321	1	R
201734	201734	283	153	365	12	241	4	R
201826	201826	245	457	117	9.6	443	3	R
202202	202202	229	132	71	6.2	220	1	R
201804	201804	210	-	767	14	27	5	N
202133	202133	209	119	69	14.6	63	2	N
202205	202205	208	95	86	7.8	298	1	N
201909	201909	202	175	88	12.4	64	4	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
201815	201815	16.8	51	5	0.62	FLD
201909	201909	12.4	64	4	0.68	FLD
202121	202121	12.6	69	2	0.73	FLD
201944	201944	12.8	69	3	0.74	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
VKL 200027	202027	FLD	-	-	-	620	465

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
VKL 180002	201802	FLD	460	520	2	709	-
202112	202112	FLD	-	-	-	678	13.4
VKL 160029	201629	FLD	470	483	3	629	-
VKL 200027	202027	FLD	-	-	-	620	-
VKL 160019	201619	FLD	512	478	4	578	-
VKL 170027	201727	FLD	544	479	3	570	-
201921	201921	FLD	408	408	1	561	6.8
VKL 180004	201804	FLD	328	409	3	558	14
201931	201931	FLD	427	427	1	557	-
201829	201829	FLD	518	491	2	557	9.4
VKL 180027	201827	FLD	460	529	2	553	-
201713	201713	FLD	463	497	3	527	-
VKL 170023	201723	FLD	360	432	3	516	7.2
VKL 170019	201719	FLD	425	411	4	506	-
201917	201917	FLD	383	484	2	498	6
VKL 180026	201826	FLD	540	552	2	491	9.6
201626	201626	FLD	489	471	4	490	6
VKL 160011	201611	FLD	415	509	4	490	-
201817	201817	FLD	454	409	3	460	-
201906	201906	FLD	515	515	1	452	10.2
201819	201819	FLD	520	500	2	447	-
201705	201705	FLD	585	783	2	441	9.6
VKL 180018	201818	FLD	366	411	2	439	-
VKL 160032	201632	FLD	477	496	4	436	7
202017	202017	FLD	383	383	1	433	6.4
201929	201929	FLD	669	669	1	430	9
201932	201932	FLD	672	672	1	429	8.6
VKL 200011	202011	FLD	539	539	1	429	8.8
201621	201621	FLD	606	505	4	401	7.8