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STUD BOOK

Logix Melk/Milk

Kudde Gesondheids Verslag / Herd Health Report

VERLORENKLOOF DEVELOPMENT

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Test-day: 2025-09-22

Friesland Cows

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HERD HEALTH SUMMARY REPORT

VERLORENKLOOF DEVELOPMENT - Friesland Cows

Table 1: Summary for Test-day 2025-09-22 (Number of Samples Tested: 58)

Analysis	Results	Norms*	% Cows outside norms*
Milk Production (kg)	Avg.: 17.9 Median: 17.6		
Butterfat (%)	Avg.: 4.60 Median: 4.54	3.5 % - 6.0 %	Too Low: 2 % Too High: 2 %
Protein (%)	Avg.: 4.16 Median: 4.11	3.0 % - 4.5 %	Too Low: 0 % Too High: 21 %
Lactose (%)	Avg.: 4.65 Median: 4.64	> 4.7 %	Too Low: 66 %
MUN (mg/dl)	Avg.: 2.61 Median: 2.70	8 - 16 mg/dl	Too Low: 100 % Too High: 0 %
SCC (x1000/ml)	Avg.: 277 Median: 139 % < 100 : 37.9 % % < 200 : 72.4 % % < 500 : 86.2 % % > 750 : 6.9 % % > 1 000 : 5.2 % % > 1 500 : 5.2 %	< 200 > 64 % > 75 % > 92 % < 4.8 % < 1 % NONE	Too High: 26.1 % Too High: 2.6 % Too High: 5.8 % Too High: 2.1 % Too High: 4.2 % Too High: 5.2 %
Butterfat Protein ratio	Average: 1.1	> 1.0	Too High: 8.6 %

Table 2: Quantification of Specific Cases (% of herd) and Loss in Production on 2025-09-22

Loss in Production due to:		Avg/Median SCC (Number (n)):	
SSC (kg per day):	55.3 (5.3 %)	1st Lact Cows:	93/71 (8)
DIM (kg per day):	532.9 (51.3 %)	2nd Lact Cows:	181/144 (18)
		3rd Lact Cows:	329/150 (15)
No. of Cows Under Pressure:	4 (6.9 %)	4th Lact Cows:	114/100 (7)
No. Cows with SCC > 200k:	16 (27.6 %)	5th Lact Cows:	684/577 (9)
No. Cows with SCC > 750k:	4 (6.9 %)	6+ Lact Cows:	138/138 (1)
No. New Infections:	1 (1.7 %)		
No. Recurring Infections:	14 (24.1 %)	Avg. SCC for SCC > 750k (n):	1714 (4)
Cure Rate for SCC > 200k:	50.0 % (9)		
Cure Rate for SCC > 750k:	60.0 % (3)	Avg. Days In Milk (DIM) for Herd:	322
No. Chronic Infections (SCC > 200k):	3 (5.2 %)	Median of DIM for Herd:	346
No. Chronic Infections (SCC > 750k):	0 (0.0 %)		
		Avg. DIM for SCC < 200k (n):	297 (42)
No. of Possible Ketosis Cases:	0	Avg. DIM for SCC > 200k and < 750k (n):	372 (12)
No. of Possible Acidosis Cases:	5	Avg. DIM for SCC > 750k (n):	428 (4)
Avg. Age at First Calf (Months):	32	Avg. Parity for Herd:	3
Avg. Inter-Calf Period (Days):	486	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	17.9	4.60	4.16	4.65	277	2.61
Top 25%	45.4	4.48	3.64	4.90	28	12.60
Breed Avg	39.3	4.06	3.42	4.75	264	10.28
Bottom 25%	33.8	3.57	3.14	4.65	164	8.20

*** 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 58 Friesland Cows

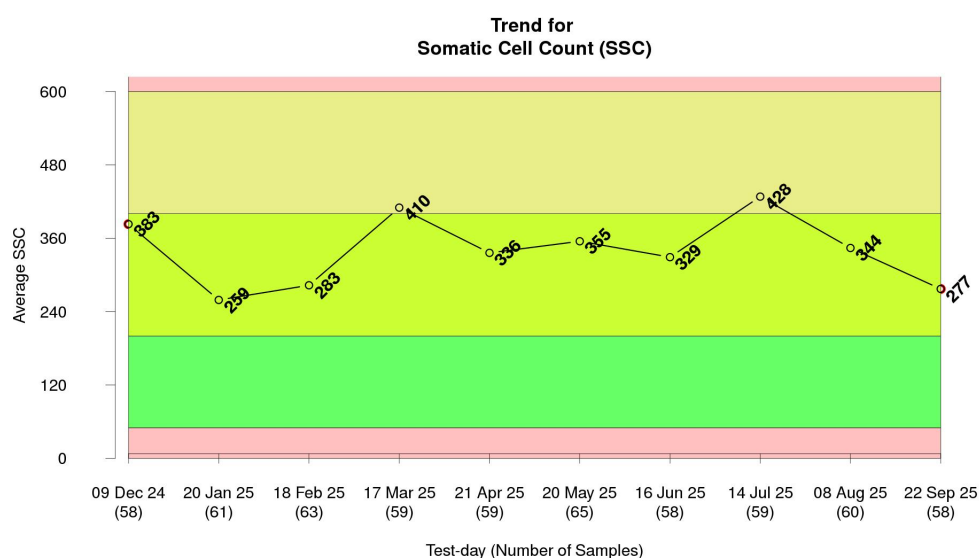
Lactation Group	% of Herd	Early Lactation	Mid Lactation	Late Lactation	% SCC > 200k	% SCC > 750k
1	13.8% (8)	1.7% (1)	0.0% (0)	12.1% (7)	0.0% ()	0.0% ()
2	31.0% (18)	1.7% (1)	5.2% (3)	24.1% (14)	8.6% (5)	0.0% ()
3	25.9% (15)	0.0% (0)	1.7% (1)	24.1% (14)	10.3% (6)	3.4% (2)
4	12.1% (7)	0.0% (0)	3.4% (2)	8.6% (5)	0.0% ()	0.0% ()
5	15.5% (9)	1.7% (1)	1.7% (1)	12.1% (7)	8.6% (5)	3.4% (2)
6+	1.7% (1)	1.7% (1)	0.0% (0)	0.0% (0)	0.0% ()	0.0% ()
Herd	100% (58)	6.8% (4)	12% (7)	81% (47)	27.5% (16)	6.8% (4)

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 58 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% ()
2	0.0% ()	0.0% ()	100.0% (3)	0.0% ()	14.3% (2)	0.0% ()
3	0% ()	0% ()	0.0% ()	0.0% ()	42.9% (6)	14.3% (2)
4	0% ()	0% ()	0.0% ()	0.0% ()	0.0% ()	0.0% ()
5	0.0% ()	0.0% ()	0.0% ()	0.0% ()	71.4% (5)	28.6% (2)
6+	0.0% ()	0.0% ()	0% ()	0% ()	0% ()	0% ()

Table 6: Bulk Tank Results for 2025-09-22 (Number of Samples Tested: 0)

Tank No	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)	pH
Calculated Tank	4.50	4.06	4.66	251	3	

**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.

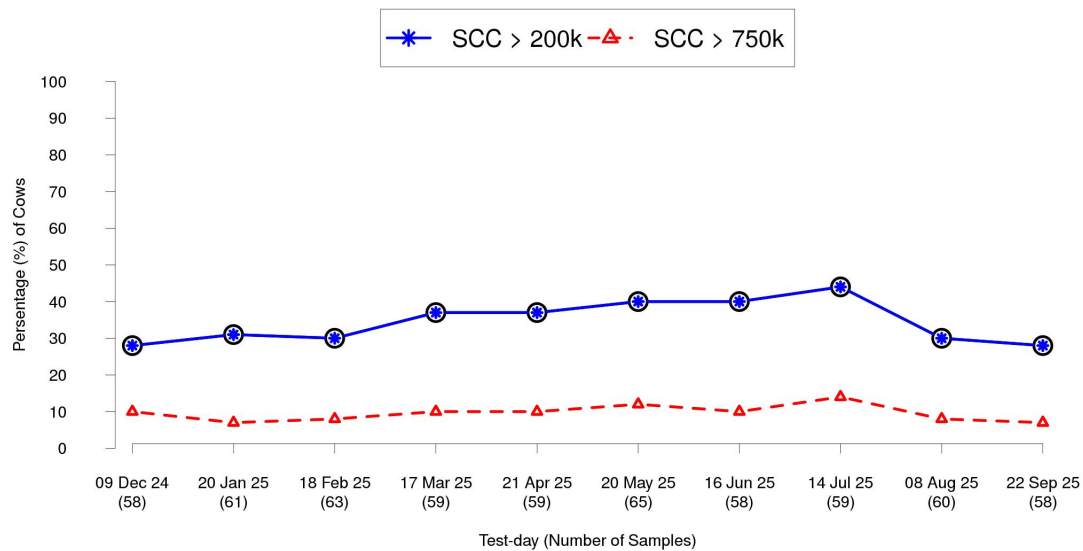


Figure 2: Percentage (%) of Cows with Somatic Cell Counts (SCC) more than 200k and 750k, respectively, per Test-day

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.

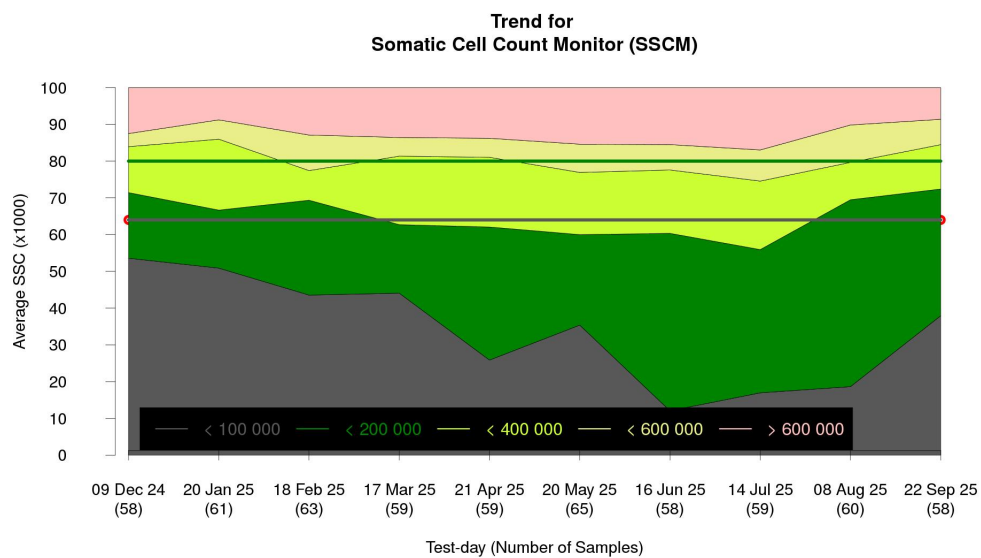


Figure 3: Somatic Cell Count (SCC) Monitor Trend

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.

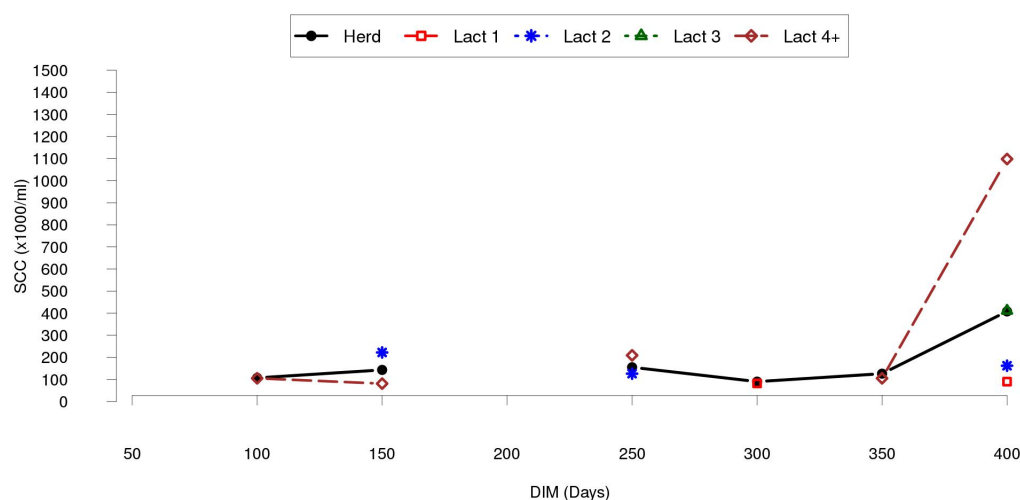


Figure 4: Average Somatic Cell Counts (SCC, x1000/ml) per Day In Milk (DIM)

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.

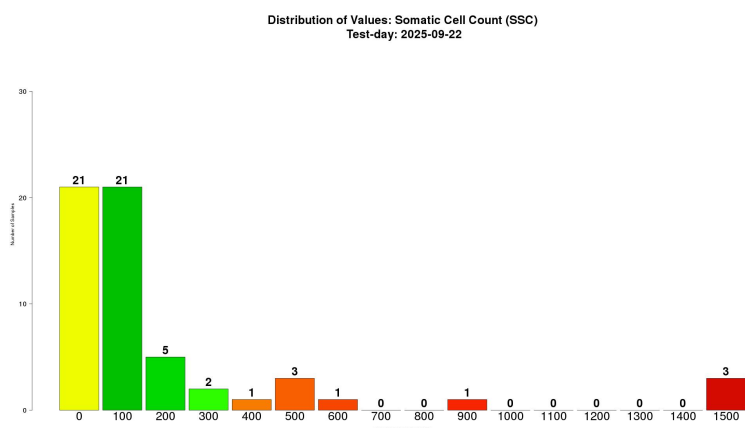


Figure 5: Somatic Cell Count (SCC) Distribution for Test-day (2025-09-22)

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 2025-09-22

SSC Levels	< 100k	100k - 200k	200k - 500k	500k - 800k	800k - 1 500k	> 1 500k
Number Cows	21	21	8	4	1	3
% Cows	36.2 %	36.2 %	13.8 %	6.9 %	1.7 %	5.2 %
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 2025-09-22 for the herd, was 277 000. 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	2312	4.47	386	5	17.8
201928	201928	1789	4.39	352	3	14
201626	201626	601	4.43	512	5	12.4
201632	201632	598	4.51	458	5	12.6

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 2025-09-22	SCC 2025-08-08	SCC 2025-07-14	Production	DIM	Parity	Status
201631	201631	2312	2413	60	17.8	386	5	R
201710	201710	1814	1711	108	10.2	395	5	R
201928	201928	1789	520	402	14	352	3	CR
201829	201829	942	137	110	14.6	579	3	R
201626	201626	601	468	1013	12.4	512	5	CR
201632	201632	598	1979	80	12.6	458	5	R
201820	201820	577	200	3353	20.4	223	5	R
202113	202113	566	183	96	22.8	175	2	N
201705	201705	480	164	159	22	463	3	R
202029	202029	315	306	146	13	403	2	R
202017	202017	301	182	516	11	455	2	R
201821	201821	288	97	115	25	401	3	R
201921	201921	275	520	318	15.4	583	3	C
202121	202121	231	155	4494	19	139	2	R
201826	201826	225	147	245	18.8	513	3	R
202133	202133	214	179	209	18.2	133	2	R

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

Cow ID	Name	Production	DIM	Parity	Prot % to Fat %
201933	201933	13	409	3	1.07
202115	202115	15.6	236	2	1.04
201631	201631	17.8	386	5	1.03
201908	201908	25.2	230	3	1.02
202113	202113	22.8	175	2	1.01

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	-	-	-	662	506
201827	201827	FLD	460	529	2	595	204
VKL 180019	201819	FLD	520	500	2	489	204
201817	201817	FLD	454	409	3	502	204
201713	201713	FLD	463	497	3	569	204

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
201802	201802	FLD	460	520	2	751	-
VKL 160029	201629	FLD	470	483	3	671	-
VKL 200027	202027	FLD	-	-	-	662	-
201619	201619	FLD	512	478	4	620	-
VKL 170027	201727	FLD	544	479	3	612	-
201921	201921	FLD	408	408	1	603	15.4
201931	201931	FLD	427	427	1	599	-
VKL 180029	201829	FLD	518	491	2	599	14.6
201827	201827	FLD	460	529	2	595	-
201713	201713	FLD	463	497	3	569	-
VKL 170023	201723	FLD	360	432	3	558	14.2
VKL 190017	201917	FLD	383	484	2	540	9.4
VKL 180026	201826	FLD	540	552	2	533	18.8
VKL 160026	201626	FLD	489	471	4	532	12.4
201611	201611	FLD	415	509	4	532	-
201817	201817	FLD	454	409	3	502	-
VKL 190006	201906	FLD	515	515	1	494	15.2
VKL 180019	201819	FLD	520	500	2	489	-
201705	201705	FLD	585	783	2	483	22
VKL 180018	201818	FLD	366	411	2	481	-
VKL 160032	201632	FLD	477	496	4	478	12.6
202017	202017	FLD	383	383	1	475	11
VKL 190029	201929	FLD	669	669	1	472	18
VKL 190032	201932	FLD	672	672	1	471	19.4
202011	202011	FLD	539	539	1	471	-
VKL 160021	201621	FLD	606	505	4	443	-
201807	201807	FLD	549	698	2	431	16.2
VKL 190033	201933	FLD	405	405	1	429	13
202010	202010	FLD	437	437	1	428	8
VKL 200029	202029	FLD	402	402	1	423	13
VKL 180021	201821	FLD	576	594	2	421	25
202118	202118	FLD	-	-	-	420	13
VKL 200024	202024	FLD	509	509	1	416	12.4
VKL 170010	201710	FLD	602	476	4	415	10.2
202128	202128	FLD	-	-	-	415	10
VKL 220014	202214	FLD	-	-	-	411	16.8
VKL 220011	202211	FLD	-	-	-	409	14.2
202217	202217	FLD	-	-	-	407	17
201631	201631	FLD	524	507	4	406	17.8