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STUD BOOK

Logix Melk/Milk

Kudde Gesondheids Verslag / Herd Health Report

VERLORENKLOOF DEVELOPMENT

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Test-day: 2025-03-17

Friesland Cows

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HERD HEALTH SUMMARY REPORT

VERLORENKLOOF DEVELOPMENT - Friesland Cows

Table 1: Summary for Test-day 2025-03-17 (Number of Samples Tested: 58)

Analysis	Results	Norms*	% Cows outside norms*
Milk Production (kg)	Avg.: 15.8 Median: 14.1		
Butterfat (%)	Avg.: 4.29 Median: 4.25	3.5 % - 6.0 %	Too Low: 3 % Too High: 0 %
Protein (%)	Avg.: 3.41 Median: 3.34	3.0 % - 4.5 %	Too Low: 9 % Too High: 0 %
Lactose (%)	Avg.: 4.47 Median: 4.53	> 4.7 %	Too Low: 93 %
MUN (mg/dl)	Avg.: 11.19 Median: 11.20	8 - 16 mg/dl	Too Low: 3 % Too High: 0 %
SCC (x1000/ml)	Avg.: 415 Median: 120 % < 100 : 44.8 % % < 200 : 62.1 % % < 500 : 81.0 % % > 750 : 10.3 % % > 1 000 : 8.6 % % > 1 500 : 6.9 %	< 200 > 64 % > 75 % > 92 % < 4.8 % < 1 % NONE	Too High: 19.2 % Too High: 12.9 % Too High: 11.0 % Too High: 5.5 % Too High: 7.6 % Too High: 6.9 %
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 2025-03-17

Loss in Production due to:		Avg/Median SCC (Number (n)):	
SSC (kg per day):	67.2 (7.3 %)	1st Lact Cows:	242/52 (7)
DIM (kg per day):	158.8 (17.3 %)	2nd Lact Cows:	567/102 (14)
No. of Cows Under Pressure:	11 (19.0 %)	3rd Lact Cows:	138/90 (17)
No. Cows with SCC > 200k:	22 (37.9 %)	4th Lact Cows:	263/152 (8)
No. Cows with SCC > 750k:	6 (10.3 %)	5th Lact Cows:	889/507 (11)
No. New Infections:	10 (17.2 %)	6+ Lact Cows:	233/233 (1)
No. Recurring Infections:	9 (15.5 %)	Avg. SCC for SCC > 750k (n):	2546 (6)
Cure Rate for SCC > 200k:	36.8 % (7)	Avg. Days In Milk (DIM) for Herd:	220
Cure Rate for SCC > 750k:	60.0 % (3)	Median of DIM for Herd:	207
No. Chronic Infections (SCC > 200k):	6 (10.3 %)	Avg. DIM for SCC < 200k (n):	202 (36)
No. Chronic Infections (SCC > 750k):	1 (1.7 %)	Avg. DIM for SCC > 200k and < 750k (n):	272 (16)
No. of Possible Ketosis Cases:	0	Avg. DIM for SCC > 750k (n):	188 (6)
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):	466	Avg. Parity for SCC > 200k and < 750k:	4
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	15.8	4.29	3.41	4.47	415	11.19
Top 25%	42.0	4.41	3.60	4.90	37	11.90
Breed Avg	35.5	4.00	3.36	4.73	394	9.64
Bottom 25%	29.4	3.55	3.10	4.62	277	7.30

*** 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

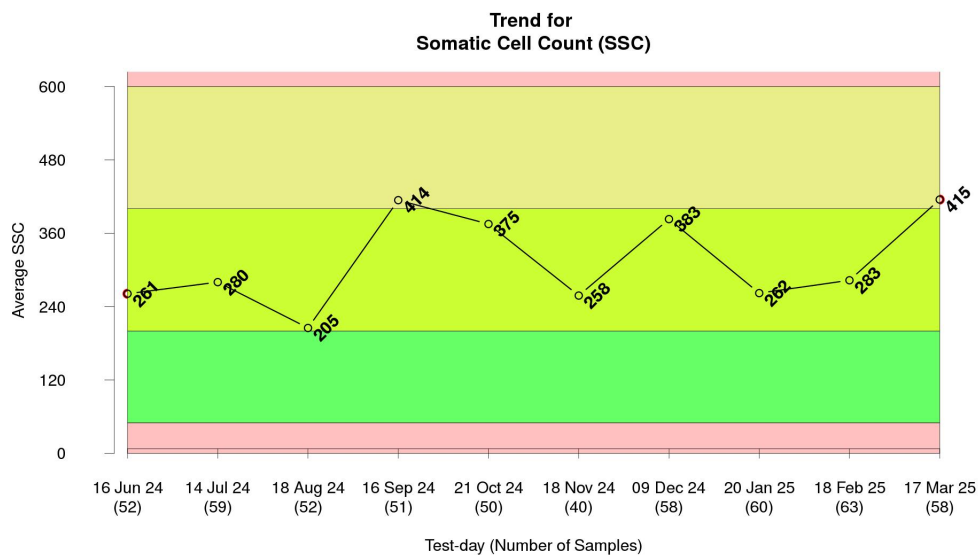
Lactation Group	% of Herd	Early Lactation	Mid Lactation	Late Lactation	% SCC > 200k	% SCC > 750k
1	12.1% (7)	1.7% (1)	8.6% (5)	1.7% (1)	3.4% (2)	1.7% (1)
2	24.1% (14)	6.9% (4)	3.4% (2)	13.8% (8)	6.9% (4)	1.7% (1)
3	29.3% (17)	3.4% (2)	5.2% (3)	20.7% (12)	6.9% (4)	0.0% (0)
4	13.8% (8)	3.4% (2)	5.2% (3)	5.2% (3)	5.2% (3)	1.7% (1)
5	19.0% (11)	3.4% (2)	3.4% (2)	12.1% (7)	13.8% (8)	5.2% (3)
6+	1.7% (1)	0.0% (0)	0.0% (0)	1.7% (1)	1.7% (1)	0.0% (0)
Herd	100% (58)	18.8% (11)	25.8% (15)	55.2% (32)	37.9% (22)	10.3% (6)

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)	20.0% (1)	20.0% (1)	100.0% (1)	0.0% (0)
2	25.0% (1)	0.0% (0)	50.0% (1)	0.0% (0)	25.0% (2)	12.5% (1)
3	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	33.3% (4)	0.0% (0)
4	50.0% (1)	50.0% (1)	0.0% (0)	0.0% (0)	66.7% (2)	0.0% (0)
5	0.0% (0)	0.0% (0)	100.0% (2)	50.0% (1)	85.7% (6)	28.6% (2)
6+	0% (0)	0% (0)	0% (0)	0% (0)	100.0% (1)	0.0% (0)

Table 6: Bulk Tank Results for 2025-03-17 (Number of Samples Tested: 1)

Tank No	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)	pH
Calculated Tank	4.21	3.34	4.49	391	11	
59 Tank	4.17	3.42	4.49	391	9.8	

**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.

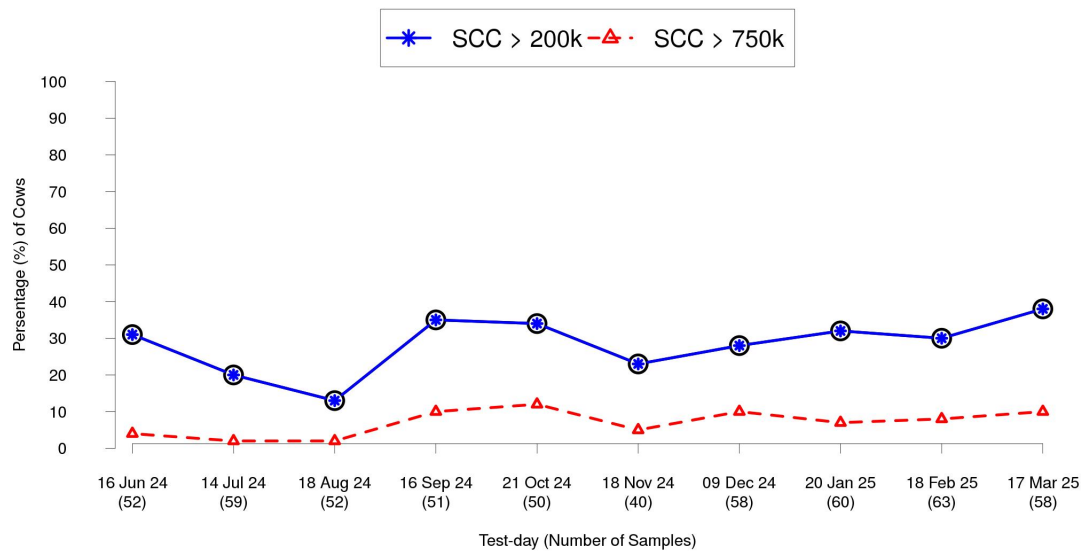


Figure 2: Percentage (%) of Cows with Somatic Cell Counts (SCC) more than 200k and 750k, respectively, per Test-day

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.

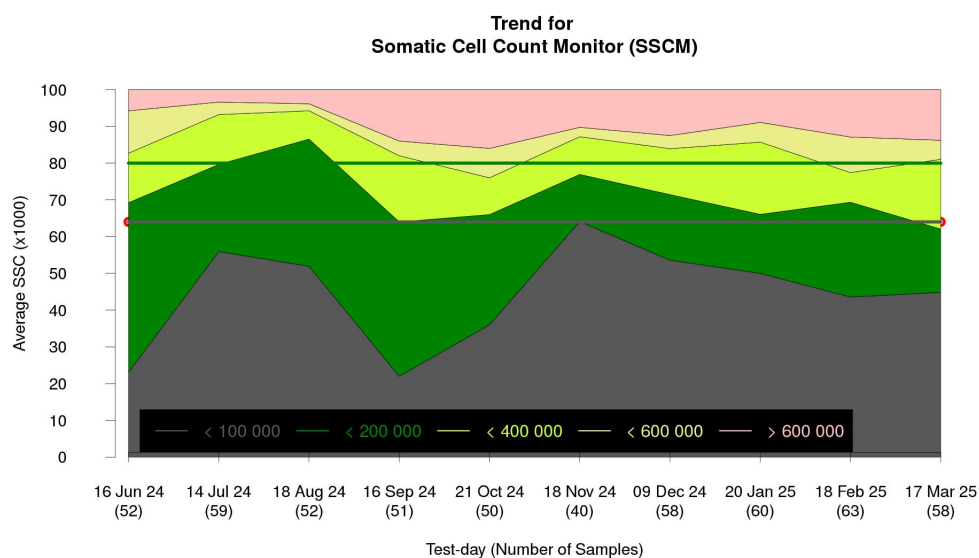


Figure 3: Somatic Cell Count (SCC) Monitor Trend

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.

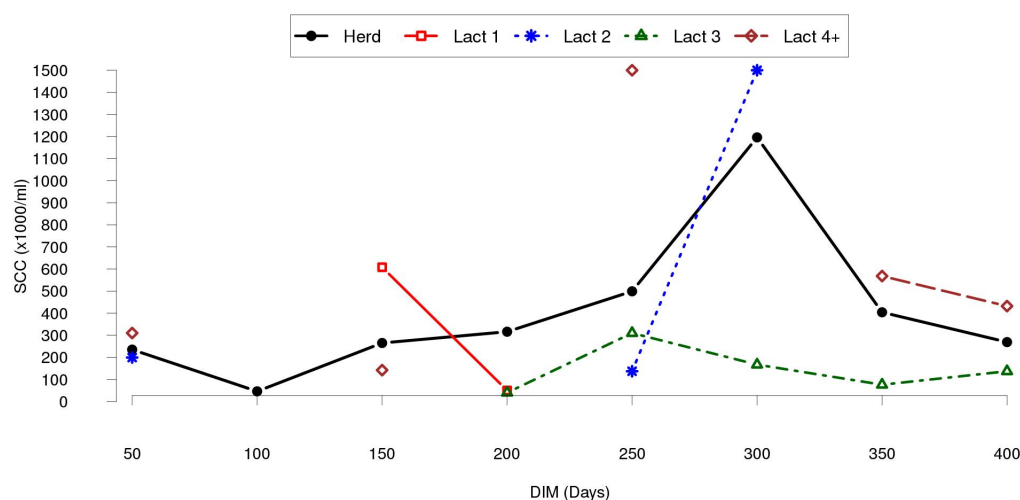


Figure 4: Average Somatic Cell Counts (SCC, x1000/ml) per Day In Milk (DIM)

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.

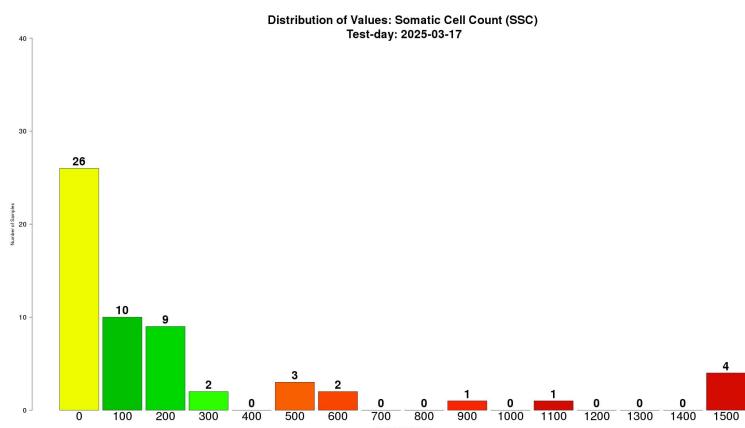


Figure 5: Somatic Cell Count (SCC) Distribution for Test-day (2025-03-17)

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 2025-03-17

SSC Levels	< 100k	100k - 200k	200k - 500k	500k - 800k	800k - 1 500k	> 1 500k
Number Cows	26	10	11	5	2	4
% Cows	44.8 %	17.2 %	19.0 %	8.6 %	3.4 %	6.9 %
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 2025-03-17 for the herd, was 415 000. 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
201929	201929	5987	3.96	263	2	14
201710	201710	3251	4.33	206	5	16.8
201631	201631	2048	4.43	197	5	15.6
201626	201626	1857	3.85	323	5	11.4
202202	202202	1176	4.35	101	1	12.6
201902	201902	956	4.56	39	4	23.4
201632	201632	670	4.57	269	5	12.2
201629	201629	653	4.20	462	5	10.2
201821	201821	576	4.36	212	3	18
202115	202115	555	4.30	47	2	15.6
201619	201619	507	4.13	411	5	12

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 2025-03-17	SCC 2025-02-18	SCC 2025-01-20	Production	DIM	Parity	Status
201929	201929	5987	100	43	14	263	2	N
201710	201710	3251	2911	1517	16.8	206	5	C
201631	201631	2048	553	-	15.6	197	5	N
201626	201626	1857	806	138	11.4	323	5	R
202202	202202	1176	25	25	12.6	101	1	N
201902	201902	956	51	-	23.4	39	4	N
201632	201632	670	926	391	12.2	269	5	CR
201629	201629	653	454	483	10.2	462	5	CR
201821	201821	576	97	95	18	212	3	N
202115	202115	555	90	-	15.6	47	2	N
201619	201619	507	428	518	12	411	5	CR
201621	201621	339	418	148	15.8	234	5	R
201804	201804	305	123	70	9.6	391	4	R
202128	202128	299	146	32	10.4	206	2	N
202214	202214	281	166	-	12.4	202	1	R
201727	201727	265	156	36	9.8	403	4	R
201933	201933	257	111	68	13.8	220	3	N
201705	201705	252	549	2965	20	274	3	C
201611	201611	233	188	187	13.2	324	6	R
201613	201613	216	61	57	18.4	146	5	N
202031	202031	212	42	43	18.2	162	2	N
201921	201921	208	1783	400	11.6	394	3	C

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 %
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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
201808	201808	FLD	651	651	1	939	620
201915	201915	FLD	466	466	1	656	305
201717	201717	FLD	435	426	3	658	305
VKL 200027	202027	FLD	-	-	-	459	305
VKL 160036	201636	FLD	372	332	4	799	305
201722	201722	FLD	288	457	2	569	292
201805	201805	FLD	380	438	2	717	292
VKL 170002	201702	FLD	424	470	3	722	292
201718	201718	FLD	448	399	3	417	250
VKL 190014	201914	FLD	398	411	2	475	222
201712	201712	FLD	485	366	4	569	222
201926	201926	FLD	543	543	1	545	222
VKL 210011	202111	FLD	-	-	-	518	222
202131	202131	FLD	-	-	-	283	222
VKL 210007	202107	FLD	-	-	-	655	222
VKL 170008	201708	FLD	376	388	4	564	222
VKL 210012	202112	FLD	-	-	-	517	193
202116	202116	FLD	-	-	-	471	187
201616	201616	FLD	331	345	5	609	187
201944	201944	FLD	614	614	1	521	187

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
201808	201808	FLD	651	651	1	939	-
VKL 160036	201636	FLD	372	332	4	799	-
VKL 170002	201702	FLD	424	470	3	722	-
201805	201805	FLD	380	438	2	717	-
201717	201717	FLD	435	426	3	658	-
201915	201915	FLD	466	466	1	656	-
VKL 210007	202107	FLD	-	-	-	655	-
VKL 180018	201818	FLD	456	456	1	644	12
201616	201616	FLD	331	345	5	609	-
201712	201712	FLD	485	366	4	569	-
201722	201722	FLD	288	457	2	569	-
VKL 170008	201708	FLD	376	388	4	564	-
VKL 180002	201802	FLD	460	520	2	548	10.4
201926	201926	FLD	543	543	1	545	-
201944	201944	FLD	614	614	1	521	-
VKL 210011	202111	FLD	-	-	-	518	-
VKL 210012	202112	FLD	-	-	-	517	-
201909	201909	FLD	360	391	2	502	-
VKL 180013	201813	FLD	375	546	2	497	22.2
VKL 190014	201914	FLD	398	411	2	475	-
202116	202116	FLD	-	-	-	471	-
VKL 160029	201629	FLD	470	483	3	468	10.2
VKL 210013	202113	FLD	-	-	-	460	-
VKL 200027	202027	FLD	-	-	-	459	-
VKL 210021	202121	FLD	-	-	-	436	-
201815	201815	FLD	280	404	2	420	-
201718	201718	FLD	448	399	3	417	-
VKL 160019	201619	FLD	512	478	4	417	12
201727	201727	FLD	544	479	3	409	9.8
VKL 190021	201921	FLD	408	408	1	400	11.6