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Logix Melk/Milk

Kudde Gesondheids Verslag / Herd Health Report

VERLORENKLOOF DEVELOPMENT

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Test-day: 2025-02-18

Friesland Cows

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February 26, 2025

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HERD HEALTH SUMMARY REPORT

VERLORENKLOOF DEVELOPMENT - Friesland Cows

Table 1: Summary for Test-day 2025-02-18 (Number of Samples Tested: 62)

Analysis	Results	Norms*	% Cows outside norms*
Milk Production (kg)	Avg.: 16.8 Median: 15.0		
Butterfat (%)	Avg.: 4.51 Median: 4.48	3.5 % - 6.0 %	Too Low: 2 % Too High: 2 %
Protein (%)	Avg.: 3.51 Median: 3.47	3.0 % - 4.5 %	Too Low: 6 % Too High: 0 %
Lactose (%)	Avg.: 4.59 Median: 4.61	> 4.7 %	Too Low: 69 %
MUN (mg/dl)	Avg.: 8.25 Median: 8.40	8 - 16 mg/dl	Too Low: 42 % Too High: 0 %
SCC (x1000/ml)	Avg.: 283 Median: 112 % < 100 : 43.5 % % < 200 : 69.4 % % < 500 : 83.9 % % > 750 : 8.1 % % > 1 000 : 3.2 % % > 1 500 : 3.2 %	< 200 > 64 % > 75 % > 92 % < 4.8 % < 1 % NONE	Too High: 20.5 % Too High: 5.6 % Too High: 8.1 % Too High: 3.3 % Too High: 2.2 % Too High: 3.2 %
Butterfat Protein ratio	Average: 1.3	> 1.0	Too High: 1.6 %

Table 2: Quantification of Specific Cases (% of herd) and Loss in Production on 2025-02-18

Loss in Production due to:		Avg/Median SCC (Number (n)):	
SSC (kg per day):	55.5 (5.3 %)	1st Lact Cows:	60/50 (7)
DIM (kg per day):	118.0 (11.3 %)	2nd Lact Cows:	203/103 (15)
No. of Cows Under Pressure:	5 (8.1 %)	3rd Lact Cows:	279/106 (20)
No. Cows with SCC > 200k:	19 (30.6 %)	4th Lact Cows:	144/126 (8)
No. Cows with SCC > 750k:	5 (8.1 %)	5th Lact Cows:	651/428 (11)
No. New Infections:	4 (6.5 %)	6+ Lact Cows:	188/188 (1)
No. Recurring Infections:	11 (17.7 %)	Avg. SCC for SCC > 750k (n):	1464 (5)
Cure Rate for SCC > 200k:	31.6 % (6)	Avg. Days In Milk (DIM) for Herd:	202
Cure Rate for SCC > 750k:	75.0 % (3)	Median of DIM for Herd:	185
No. Chronic Infections (SCC > 200k):	7 (11.3 %)	Avg. DIM for SCC < 200k (n):	186 (43)
No. Chronic Infections (SCC > 750k):	1 (1.6 %)	Avg. DIM for SCC > 200k and < 750k (n):	239 (14)
No. of Possible Ketosis Cases:	2	Avg. DIM for SCC > 750k (n):	220 (5)
No. of Possible Acidosis Cases:	1	Avg. Parity for Herd:	3
Avg. Age at First Calf (Months):	32	Avg. Parity for SCC < 200k:	3
Avg. Inter-Calf Period (Days):	471	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	16.8	4.51	3.51	4.59	283	8.25
Top 25%	43.5	4.36	3.63	4.99	38	15.70
Breed Avg	36.9	4.00	3.40	4.82	383	12.53
Bottom 25%	30.9	3.59	3.16	4.72	292	9.40

*** 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 62 Friesland Cows

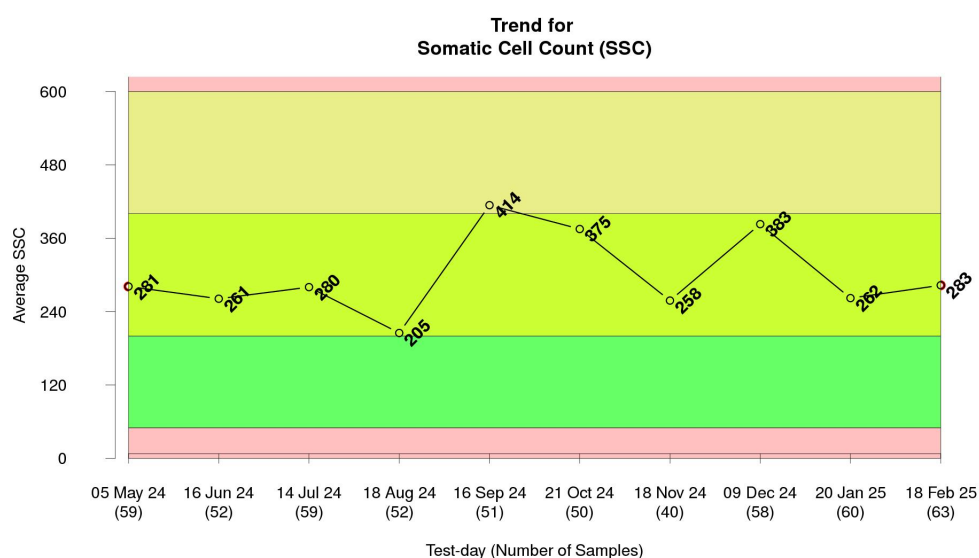
Lactation Group	% of Herd	Early Lactation	Mid Lactation	Late Lactation	% SCC > 200k	% SCC > 750k
1	11.3% (7)	4.8% (3)	6.5% (4)	0.0% (0)	0.0% (0)	0.0% (0)
2	24.2% (15)	8.1% (5)	9.7% (6)	6.5% (4)	6.5% (4)	1.6% (1)
3	32.3% (20)	3.2% (2)	11.3% (7)	17.7% (11)	8.1% (5)	1.6% (1)
4	12.9% (8)	6.5% (4)	0.0% (0)	6.5% (4)	1.6% (1)	0.0% (0)
5	17.7% (11)	3.2% (2)	4.8% (3)	9.7% (6)	14.5% (9)	4.8% (3)
6+	1.6% (1)	0.0% (0)	0.0% (0)	1.6% (1)	0.0% (0)	0.0% (0)
Herd	100% (62)	25.8% (16)	32.3% (20)	42% (26)	30.7% (19)	8% (5)

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 62 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)	0.0% (0)	0% (0)	0% (0)
2	20.0% (1)	20.0% (1)	33.3% (2)	0.0% (0)	25.0% (1)	0.0% (0)
3	0.0% (0)	0.0% (0)	28.6% (2)	0.0% (0)	27.3% (3)	9.1% (1)
4	0.0% (0)	0.0% (0)	0% (0)	0% (0)	25.0% (1)	0.0% (0)
5	50.0% (1)	0.0% (0)	66.7% (2)	33.3% (1)	100.0% (6)	33.3% (2)
6+	0% (0)	0% (0)	0% (0)	0% (0)	0.0% (0)	0.0% (0)

Table 6: Bulk Tank Results for 2025-02-18 (Number of Samples Tested: 0)

Tank No	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)	pH
Calculated Tank	4.44	3.45	4.60	259	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.

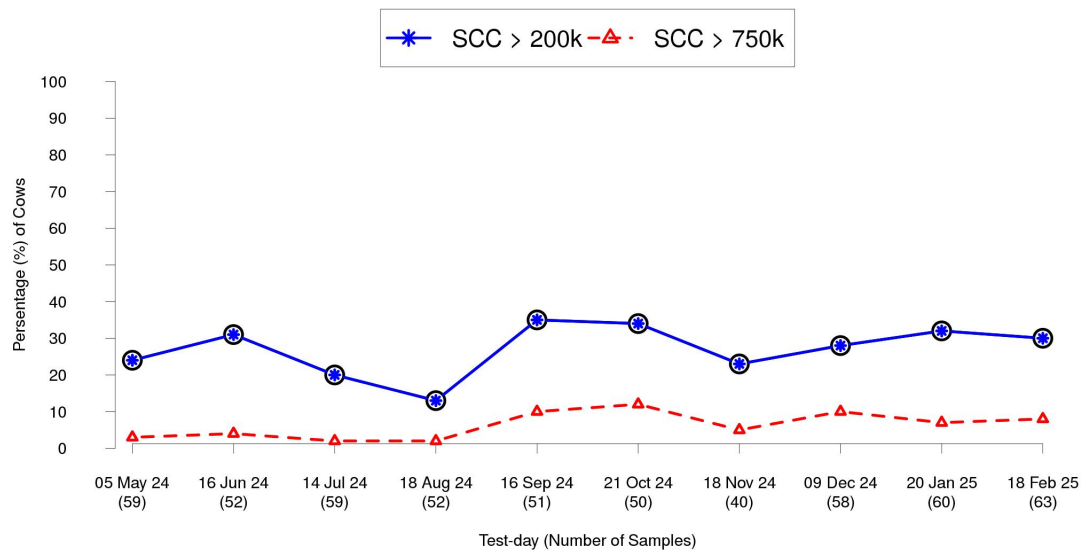


Figure 2: Percentage (%) of Cows with Somatic Cell Counts (SCC) more than 200k and 750k, respectively, per Test-day

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.

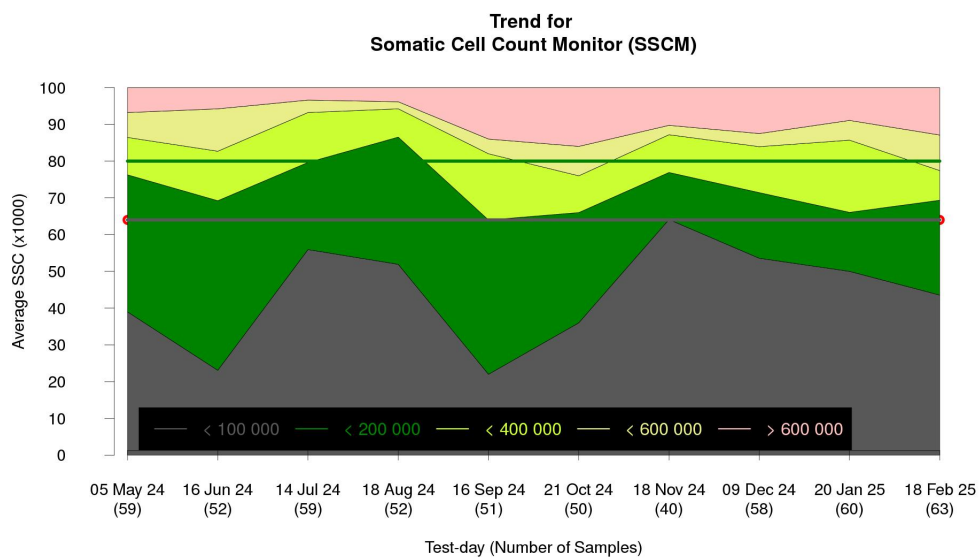


Figure 3: Somatic Cell Count (SCC) Monitor Trend

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.

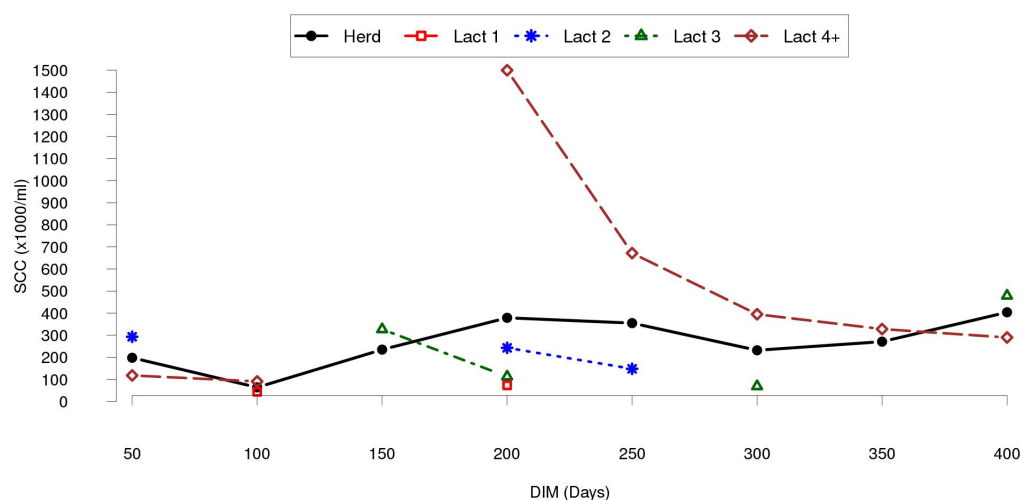


Figure 4: Average Somatic Cell Counts (SCC, x1000/ml) per Day In Milk (DIM)

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.

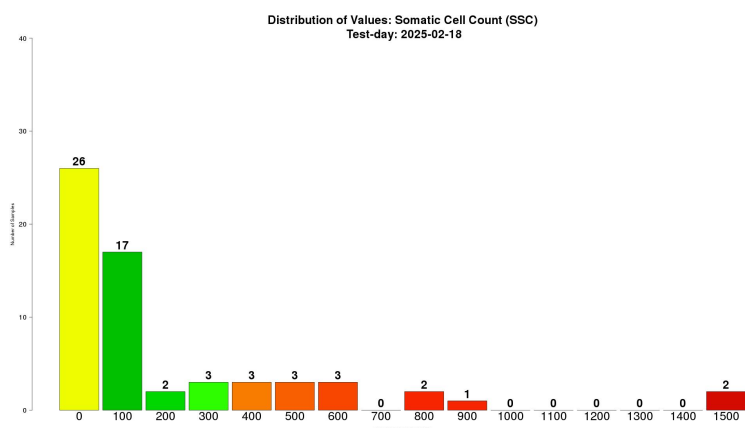


Figure 5: Somatic Cell Count (SCC) Distribution for Test-day (2025-02-18)

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 2025-02-18

SSC Levels	< 100k	100k - 200k	200k - 500k	500k - 800k	800k - 1 500k	> 1 500k
Number Cows	26	17	8	6	3	2
% Cows	41.9 %	27.4 %	12.9 %	9.7 %	4.8 %	3.2 %
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 2025-02-18 for the herd, was 283 000. 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
201710	201710	2911	4.49	179	5	15
201626	201626	806	4.20	296	5	11.6
201827	201827	660	4.17	359	3	6.2
201705	201705	549	4.28	247	3	17
201928	201928	500	4.43	136	3	16

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 2025-02-18	SCC 2025-01-20	SCC 2024-12-09	Production	DIM	Parity	Status
201710	201710	2911	1517	2040	15	179	5	C
201921	201921	1783	400	3843	12	367	3	C
201632	201632	926	391	417	14.2	242	5	CR
201940	201940	894	-	-	25	14	2	N
201626	201626	806	138	1375	11.6	296	5	R
201827	201827	660	240	139	6.2	359	3	R
202029	202029	618	908	2644	15.2	187	2	C
201809	201809	613	130	630	21	136	3	R
201631	201631	553	-	63	14.2	170	5	N
201705	201705	549	2965	42	17	247	3	N
201928	201928	500	152	183	16	136	3	R
201629	201629	454	483	288	14	435	5	CR
201619	201619	428	518	321	12.8	384	5	CR
201621	201621	418	148	187	15.2	207	5	R
201713	201713	360	373	286	15	333	4	C
202017	202017	303	725	50	13.4	239	2	R
202010	202010	303	261	-	14.4	192	2	R
201719	201719	297	57	59	10.4	313	5	R
201820	201820	208	-	-	25.2	7	5	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
201940	201940	25	14	2	0.67	FLD
202019	202019	25	11	2	0.72	FLD

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

Cow ID	Name	Production	DIM	Parity	Prot % to Fat %
201631	201631	14.2	170	5	1.02

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 180008	201808	FLD	651	651	1	911	590
202027	202027	FLD	-	-	-	431	275
VKL 160036	201636	FLD	372	332	4	771	275
VKL 170017	201717	FLD	435	426	3	630	275
201915	201915	FLD	466	466	1	628	275
VKL 170002	201702	FLD	424	470	3	694	262
VKL 170022	201722	FLD	288	457	2	541	262
VKL 180005	201805	FLD	380	438	2	689	262
VKL 170018	201718	FLD	448	399	3	389	220
VKL 170012	201712	FLD	485	366	4	541	192
202111	202111	FLD	-	-	-	490	192
201926	201926	FLD	543	543	1	517	192
202131	202131	FLD	-	-	-	255	192
VKL 170008	201708	FLD	376	388	4	536	192
VKL 210007	202107	FLD	-	-	-	627	192
VKL 190014	201914	FLD	398	411	2	447	192
VKL 210012	202112	FLD	-	-	-	489	163

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 180008	201808	FLD	651	651	1	911	-
VKL 160036	201636	FLD	372	332	4	771	-
VKL 170002	201702	FLD	424	470	3	694	-
VKL 180005	201805	FLD	380	438	2	689	-
202019	202019	FLD	-	-	-	640	25
VKL 170017	201717	FLD	435	426	3	630	-
201915	201915	FLD	466	466	1	628	-
VKL 210007	202107	FLD	-	-	-	627	-
VKL 180018	201818	FLD	456	456	1	616	13.4
VKL 160016	201616	FLD	331	345	5	581	-
VKL 170022	201722	FLD	288	457	2	541	-
VKL 170012	201712	FLD	485	366	4	541	-
VKL 170008	201708	FLD	376	388	4	536	-
VKL 190002	201902	FLD	540	540	1	520	24.6
201802	201802	FLD	460	520	2	520	10.6
201926	201926	FLD	543	543	1	517	-
201820	201820	FLD	-	-	-	495	25.2
VKL 190044	201944	FLD	614	614	1	493	-
202111	202111	FLD	-	-	-	490	-
VKL 210012	202112	FLD	-	-	-	489	-
VKL 210015	202115	FLD	-	-	-	476	14.2
VKL 190008	201908	FLD	792	792	1	474	25.6
201909	201909	FLD	360	391	2	474	-
VKL 180013	201813	FLD	375	546	2	469	-
VKL 190040	201940	FLD	-	-	-	464	25
VKL 190014	201914	FLD	398	411	2	447	-
202116	202116	FLD	-	-	-	443	-
201629	201629	FLD	470	483	3	440	14
201732	201732	FLD	455	449	3	436	23
VKL 210013	202113	FLD	-	-	-	432	-
202027	202027	FLD	-	-	-	431	-
VKL 210021	202121	FLD	-	-	-	408	-
VKL 210001	202101	FLD	-	-	-	401	20.4