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STUD BOOK

Logix Melk/Milk

Kudde Gesondheids Verslag / Herd Health Report

VERLORENKLOOF DEVELOPMENT

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Test-day: 2025-11-20

Friesland Cows

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HERD HEALTH SUMMARY REPORT

VERLORENKLOOF DEVELOPMENT - Friesland Cows

Table 1: Summary for Test-day 2025-11-20 (Number of Samples Tested: 57)

Analysis	Results	Norms*	% Cows outside norms*
Milk Production (kg)	Avg.: 17.0 Median: 16.6		
Butterfat (%)	Avg.: 4.67 Median: 4.62	3.5 % - 6.0 %	Too Low: 4 % Too High: 0 %
Protein (%)	Avg.: 4.22 Median: 4.11	3.0 % - 4.5 %	Too Low: 0 % Too High: 26 %
Lactose (%)	Avg.: 4.84 Median: 4.87	> 4.7 %	Too Low: 14 %
MUN (mg/dl)	Avg.: 10.07 Median: 9.00	8 - 16 mg/dl	Too Low: 18 % Too High: 4 %
SCC (x1000/ml)	Avg.: 191 Median: 112 % < 100 : 43.9 % % < 200 : 78.9 % % < 500 : 91.2 % % > 750 : 3.5 % % > 1 000 : 1.8 % % > 1 500 : 1.8 %	< 200 > 64 % > 75 % > 92 % < 4.8 % < 1 % NONE	Too High: 20.1 % Too High: 0 % Too High: 0.8 % Too High: 0 % Too High: 0.8 % Too High: 1.8 %
Butterfat Protein ratio	Average: 1.1	> 1.0	Too High: 10.5 %

Table 2: Quantification of Specific Cases (% of herd) and Loss in Production on 2025-11-20

Loss in Production due to:		Avg/Median SCC (Number (n)):	
SSC (kg per day):	38.8 (4.0 %)	1st Lact Cows:	80/75 (9)
DIM (kg per day):	574.9 (59.3 %)	2nd Lact Cows:	206/104 (16)
		3rd Lact Cows:	213/175 (14)
No. of Cows Under Pressure:	1 (1.8 %)	4th Lact Cows:	152/113 (8)
No. Cows with SCC > 200k:	12 (21.1 %)	5th Lact Cows:	264/188 (8)
No. Cows with SCC > 750k:	2 (3.5 %)	6+ Lact Cows:	288/288 (2)
No. New Infections:	2 (3.5 %)		
No. Recurring Infections:	9 (15.8 %)	Avg. SCC for SCC > 750k (n):	1242 (2)
Cure Rate for SCC > 200k:	58.8 % (10)		
Cure Rate for SCC > 750k:	87.5 % (7)	Avg. Days In Milk (DIM) for Herd:	346
No. Chronic Infections (SCC > 200k):	7 (12.3 %)	Median of DIM for Herd:	363
No. Chronic Infections (SCC > 750k):	1 (1.8 %)		
		Avg. DIM for SCC < 200k (n):	340 (45)
No. of Possible Ketosis Cases:	0	Avg. DIM for SCC > 200k and < 750k (n):	380 (10)
No. of Possible Acidosis Cases:	6	Avg. DIM for SCC > 750k (n):	304 (2)
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:	4
No. Embrios:	NA	Avg. Parity for SCC > 750k:	2

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	17.0	4.67	4.22	4.84	191	10.07
Top 25%	45.3	4.44	3.63	5.02	30	14.00
Breed Avg	38.3	4.01	3.39	4.86	293	11.45
Bottom 25%	32.4	3.48	3.09	4.74	186	8.00

*** 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 57 Friesland Cows

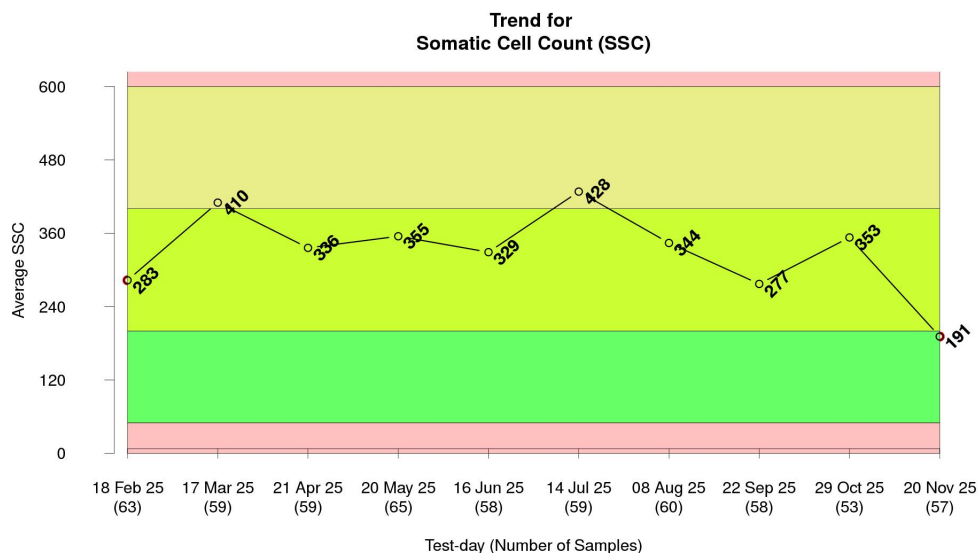
Lactation Group	% of Herd	Early Lactation	Mid Lactation	Late Lactation	% SCC > 200k	% SCC > 750k
1	15.8% (9)	3.5% (2)	0.0% (0)	12.3% (7)	0.0% (0)	0.0% (0)
2	28.1% (16)	1.8% (1)	5.3% (3)	21.1% (12)	3.5% (2)	1.8% (1)
3	24.6% (14)	0.0% (0)	1.8% (1)	22.8% (13)	7.0% (4)	1.8% (1)
4	14.0% (8)	1.8% (1)	1.8% (1)	10.5% (6)	1.8% (1)	0.0% (0)
5	14.0% (8)	0.0% (0)	3.5% (2)	10.5% (6)	7.0% (4)	0.0% (0)
6+	3.5% (2)	1.8% (1)	1.8% (1)	0.0% (0)	1.8% (1)	0.0% (0)
Herd	100% (57)	8.9% (5)	14.2% (8)	77.2% (44)	21.1% (12)	3.6% (2)

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 57 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	0.0% (0)	0.0% (0)	33.3% (1)	33.3% (1)	8.3% (1)	0.0% (0)
3	0% (0)	0% (0)	0.0% (0)	0.0% (0)	30.8% (4)	7.7% (1)
4	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	16.7% (1)	0.0% (0)
5	0% (0)	0% (0)	0.0% (0)	0.0% (0)	66.7% (4)	0.0% (0)
6+	100.0% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0% (0)	0% (0)

Table 6: Bulk Tank Results for 2025-11-20 (Number of Samples Tested: 0)

Tank No	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)	pH
Calculated Tank	4.61	4.10	4.86	198	10	

**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.

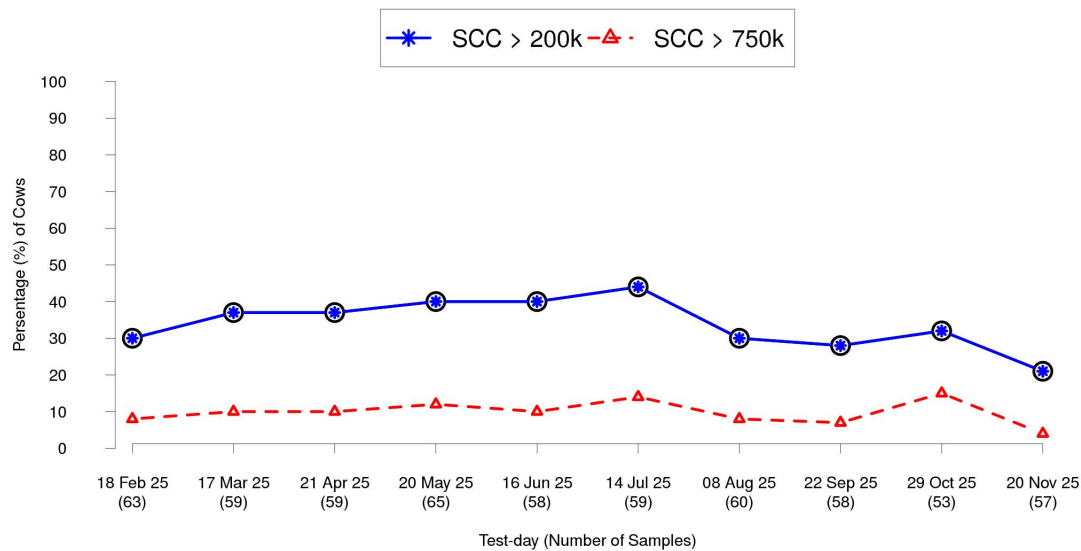


Figure 2: Percentage (%) of Cows with Somatic Cell Counts (SCC) more than 200k and 750k, respectively, per Test-day

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.

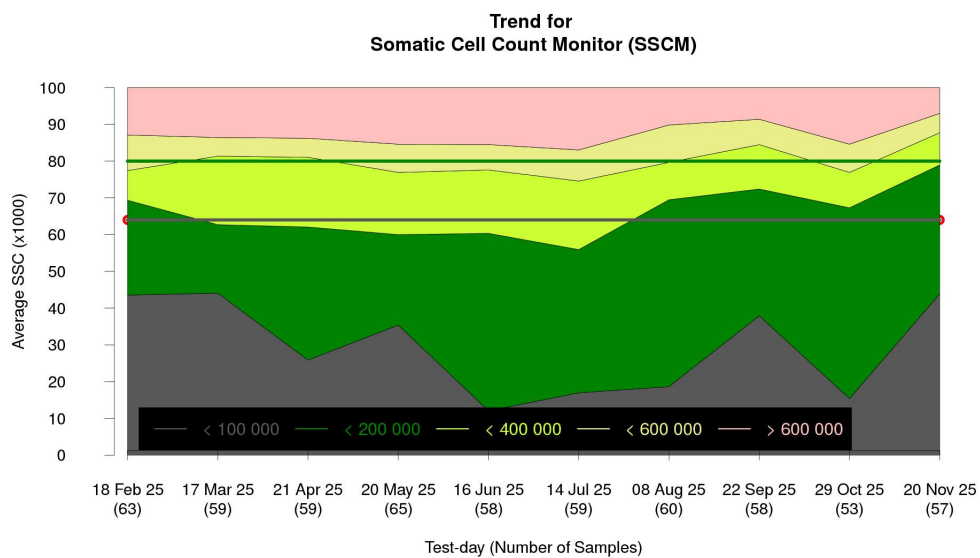


Figure 3: Somatic Cell Count (SCC) Monitor Trend

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.

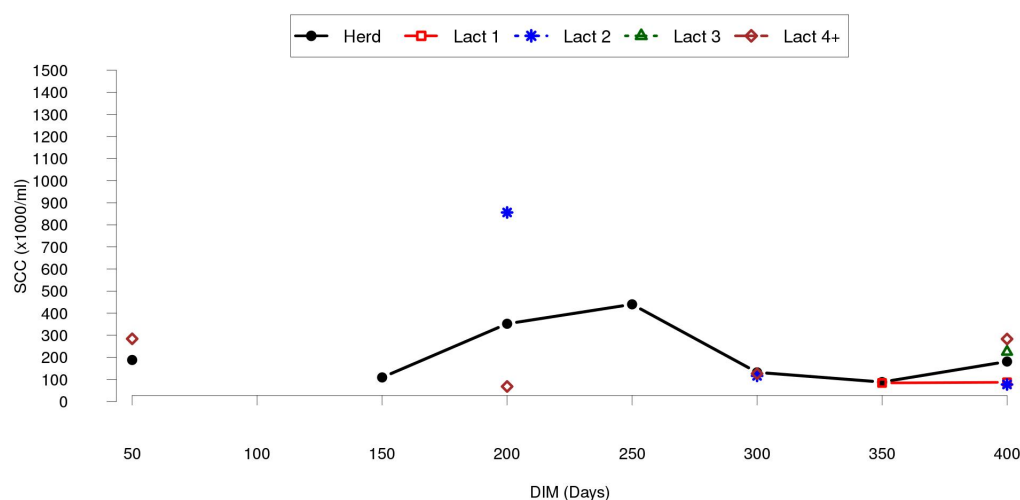


Figure 4: Average Somatic Cell Counts (SCC, x1000/ml) per Day In Milk (DIM)

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.

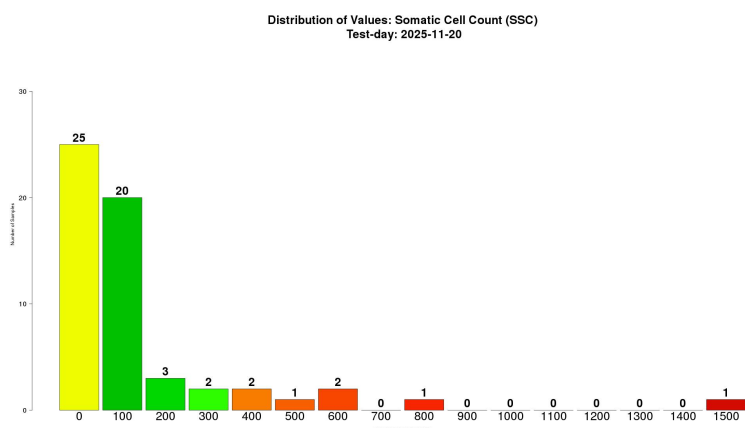


Figure 5: Somatic Cell Count (SCC) Distribution for Test-day (2025-11-20)

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 2025-11-20

SSC Levels	< 100k	100k - 200k	200k - 500k	500k - 800k	800k - 1 500k	> 1 500k
Number Cows	25	20	7	3	1	1
% Cows	43.9 %	35.1 %	12.3 %	5.3 %	1.8 %	1.8 %
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 2025-11-20 for the herd, was 191 000. This figure places the herd in the "Light Green" SCC Zone and the milk quality is Very Good. Milk loss due to SCC is between 2 and 4 %.

Udder Health: You do not have a major mastitis problem but there may be problems with individual cows. Assess your mastitis control procedures.

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

Cow ID	Name	SCC	Lactose %	DIM	Parity	Production
201631	201631	628	4.57	445	5	14.2

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 2025-11-20	SCC 2025-10-29	SCC 2025-09-22	Production	DIM	Parity	Status
202121	202121	1660	170	231	23	198	2	R
201928	201928	825	820	1789	11.4	411	3	CR
201631	201631	628	2480	2312	14.2	445	5	CR
201626	201626	623	480	601	16	571	5	CR
201825	201825	551	100	133	22.2	204	4	R
201619	201619	474	-	-	30.6	35	6	N
201826	201826	415	1250	225	4	572	3	CR
202113	202113	328	1590	566	24	234	2	C
201632	201632	305	1520	598	11.7	517	5	CR
201732	201732	273	120	68	15.2	295	5	R
201908	201908	220	130	52	18.4	289	3	N
201829	201829	213	230	942	8.8	638	3	CR

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 %
202118	202118	9.6	459	2	1.36
201921	201921	3.5	642	3	1.15
201826	201826	4	572	3	1.09
202211	202211	9.8	448	1	1.07
201829	201829	8.8	638	3	1.01
201632	201632	11.7	517	5	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	-	-	-	711	556
VKL 180017	201817	FLD	454	409	3	551	254
VKL 170013	201713	FLD	463	497	3	618	254
VKL 180019	201819	FLD	520	500	2	538	254
VKL 180027	201827	FLD	460	529	2	644	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
VKL 180002	201802	FLD	460	520	2	800	27
VKL 160029	201629	FLD	470	483	3	720	-
VKL 200027	202027	FLD	-	-	-	711	-
201619	201619	FLD	512	478	4	669	30.6
VKL 170027	201727	FLD	544	479	3	661	-
VKL 190021	201921	FLD	408	408	1	652	3.5
VKL 190031	201931	FLD	427	427	1	648	-
VKL 180029	201829	FLD	518	491	2	648	8.8
VKL 180027	201827	FLD	460	529	2	644	-
VKL 170013	201713	FLD	463	497	3	618	-
VKL 170023	201723	FLD	360	432	3	607	14.2
VKL 190017	201917	FLD	383	484	2	589	-
VKL 180026	201826	FLD	540	552	2	582	4
201611	201611	FLD	415	509	4	581	-
201626	201626	FLD	489	471	4	581	16
VKL 180017	201817	FLD	454	409	3	551	-
VKL 190006	201906	FLD	515	515	1	543	11
VKL 180019	201819	FLD	520	500	2	538	-
201705	201705	FLD	585	783	2	532	18
VKL 180018	201818	FLD	366	411	2	530	-
VKL 160032	201632	FLD	477	496	4	527	11.7
VKL 200017	202017	FLD	383	383	1	524	-
201929	201929	FLD	669	669	1	521	16.2
202011	202011	FLD	539	539	1	520	-
201932	201932	FLD	672	672	1	520	17.8
VKL 160021	201621	FLD	606	505	4	492	-
201807	201807	FLD	549	698	2	480	18.8
201933	201933	FLD	405	405	1	478	15
202010	202010	FLD	437	437	1	477	-
VKL 200029	202029	FLD	402	402	1	472	-
VKL 180021	201821	FLD	576	594	2	470	19.6
202118	202118	FLD	-	-	-	469	9.6
VKL 200024	202024	FLD	509	509	1	465	11
201710	201710	FLD	602	476	4	464	-
VKL 210028	202128	FLD	-	-	-	464	9.6
VKL 220014	202214	FLD	-	-	-	460	15
VKL 220011	202211	FLD	-	-	-	458	9.8
VKL 220017	202217	FLD	-	-	-	456	15.6
201631	201631	FLD	524	507	4	455	14.2
202205	202205	FLD	-	-	-	437	17.8
201928	201928	FLD	655	655	1	421	11.4
VKL 180009	201809	FLD	504	622	2	421	21.6
202031	202031	FLD	640	640	1	420	16
202005	202005	FLD	359	389	2	410	7.4
201613	201613	FLD	423	550	4	404	12