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SA STAMBOEK
STUD BOOK

Logix Melk/Milk

Kudde Gesondheids Verslag / Herd Health Report

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Test-day: 2024-11-25

Jersey Cows

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HERD HEALTH SUMMARY REPORT

REID - Jersey Cows

Table 1: Summary for Test-day 2024-11-25 (Number of Samples Tested: 72)

Analysis	Results	Norms*	% Cows outside norms*
Milk Production (kg)	Avg.: 23.7 Median: 24.5		
Butterfat (%)	Avg.: 4.96 Median: 4.95	3.5 % - 6.0 %	Too Low: 3 % Too High: 6 %
Protein (%)	Avg.: 3.94 Median: 3.91	3.0 % - 4.5 %	Too Low: 0 % Too High: 7 %
Lactose (%)	Avg.: 4.78 Median: 4.81	> 4.7 %	Too Low: 31 %
MUN (mg/dl)	Avg.: 17.39 Median: 17.50	8 - 16 mg/dl	Too Low: 3 % Too High: 76 %
SCC (x1000/ml)	Avg.: 391 Median: 52 % < 100 : 65.3 % % < 200 : 77.8 % % < 500 : 87.5 % % > 750 : 9.7 % % > 1 000 : 8.3 % % > 1 500 : 5.6 %	< 200 > 64 % > 75 % > 92 % < 4.8 % < 1 % NONE	Too High: 0 % Too High: 0 % Too High: 4.5 % Too High: 4.9 % Too High: 7.3 % Too High: 5.6 %
Butterfat Protein ratio	Average: 1.3	> 1.0	Too High: 4.2 %

Table 2: Quantification of Specific Cases (% of herd) and Loss in Production on 2024-11-25

Loss in Production due to:		Avg/Median SCC (Number (n)):	
SSC (kg per day):	113.8 (6.7 %)	1st Lact Cows:	52/47 (14)
DIM (kg per day):	318.5 (18.7 %)	2nd Lact Cows:	401/62 (17)
		3rd Lact Cows:	85/52 (11)
No. of Cows Under Pressure:	6 (8.3 %)	4th Lact Cows:	239/40 (7)
No. Cows with SCC > 200k:	16 (22.2 %)	5th Lact Cows:	281/69 (9)
No. Cows with SCC > 750k:	7 (9.7 %)	6+ Lact Cows:	1106/202 (14)
No. New Infections:	14 (19.4 %)		
No. Recurring Infections:	2 (2.8 %)	Avg. SCC for SCC > 750k (n):	3149 (7)
Cure Rate for SCC > 200k:	23.1 % (3)		
Cure Rate for SCC > 750k:	50.0 % (2)	Avg. Days In Milk (DIM) for Herd:	224
No. Chronic Infections (SCC > 200k):	0 (0.0 %)	Median of DIM for Herd:	191
No. Chronic Infections (SCC > 750k):	0 (0.0 %)		
		Avg. DIM for SCC < 200k (n):	215 (56)
No. of Possible Ketosis Cases:	1	Avg. DIM for SCC > 200k and < 750k (n):	238 (9)
No. of Possible Acidosis Cases:	3	Avg. DIM for SCC > 750k (n):	277 (7)
Avg. Age at First Calf (Months):	24	Avg. Parity for Herd:	4
Avg. Inter-Calf Period (Days):	486	Avg. Parity for SCC < 200k:	3
No. Flushings:	NA	Avg. Parity for SCC > 200k and < 750k:	5
No. Embrios:	NA	Avg. Parity for SCC > 750k:	5

Table 3: Benchmark: Herd with the Top 25%, Average and Bottom 25% for different traits tested the last month of for Jersey Cows

	Milk Production (kg)	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)
Herd	23.7	4.96	3.94	4.78	391	17.39
Top 25%	26.9	5.73	4.17	4.80	39	15.00
Breed Avg	22.2	5.16	3.89	4.63	280	11.80
Bottom 25%	16.9	4.63	3.64	4.52	243	8.60

*** 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 72 Jersey Cows

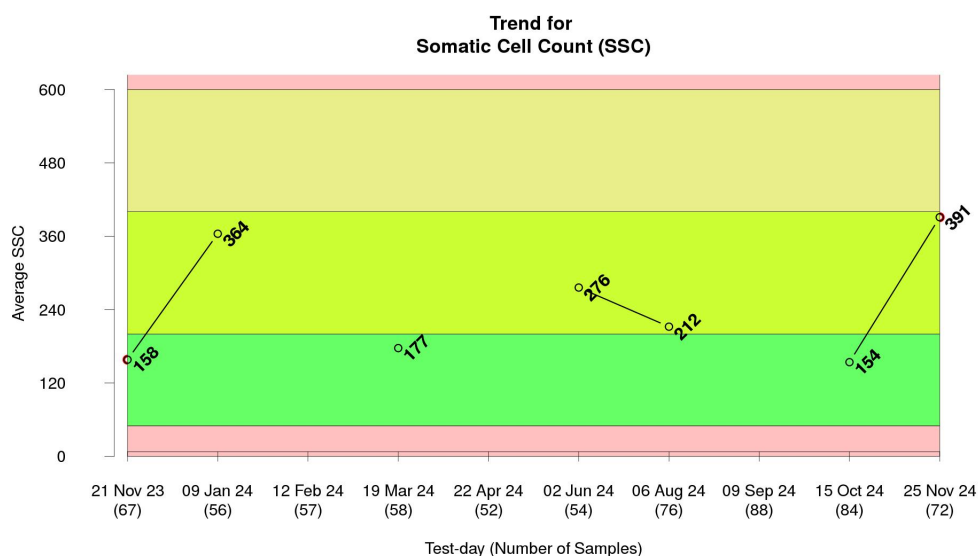
Lactation Group	% of Herd	Early Lactation	Mid Lactation	Late Lactation	% SCC > 200k	% SCC > 750k
1	19.4% (14)	5.6% (4)	5.6% (4)	8.3% (6)	1.4% (1)	0.0% (0)
2	23.6% (17)	4.2% (3)	4.2% (3)	15.3% (11)	4.2% (3)	1.4% (1)
3	15.3% (11)	4.2% (3)	6.9% (5)	4.2% (3)	2.8% (2)	0.0% (0)
4	9.7% (7)	1.4% (1)	5.6% (4)	2.8% (2)	1.4% (1)	1.4% (1)
5	12.5% (9)	1.4% (1)	4.2% (3)	6.9% (5)	2.8% (2)	2.8% (2)
6+	19.4% (14)	1.4% (1)	8.3% (6)	9.7% (7)	9.7% (7)	4.2% (3)
Herd	99.9% (72)	18.2% (13)	34.8% (25)	47.2% (34)	22.3% (16)	9.8% (7)

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 72 Jersey 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)	16.7% (1)	0.0% (0)
2	0.0% (0)	0.0% (0)	33.3% (1)	33.3% (1)	18.2% (2)	0.0% (0)
3	0.0% (0)	0.0% (0)	20.0% (1)	0.0% (0)	33.3% (1)	0.0% (0)
4	0.0% (0)	0.0% (0)	25.0% (1)	25.0% (1)	0.0% (0)	0.0% (0)
5	0.0% (0)	0.0% (0)	33.3% (1)	33.3% (1)	20.0% (1)	20.0% (1)
6+	100.0% (1)	0.0% (0)	16.7% (1)	0.0% (0)	71.4% (5)	42.9% (3)

Table 6: Bulk Tank Results for 2024-11-25 (Number of Samples Tested: 0)

Tank No	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)	pH
Calculated Tank	4.92	3.94	4.80	295	18	

**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.

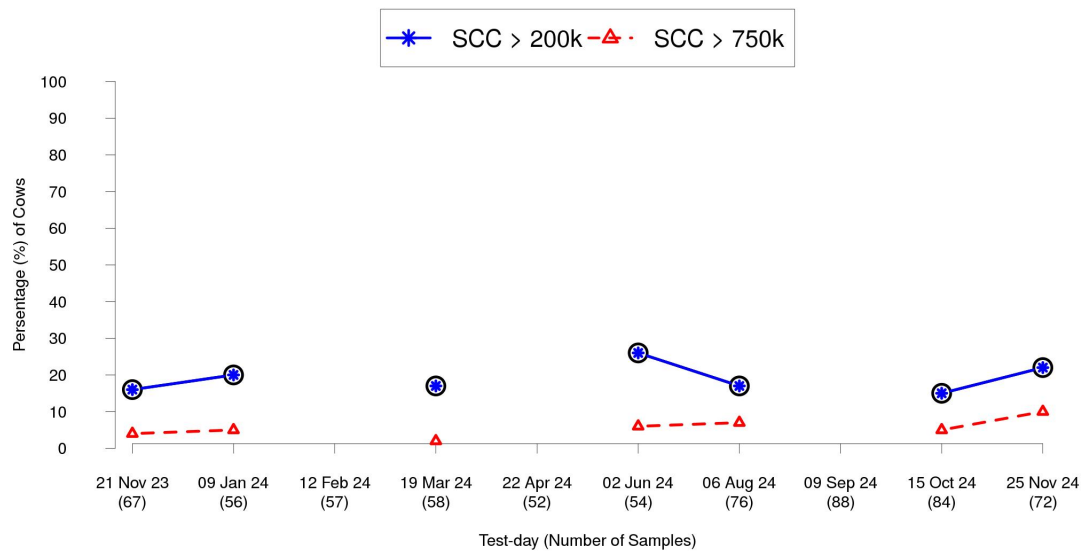


Figure 2: Percentage (%) of Cows with Somatic Cell Counts (SCC) more than 200k and 750k, respectively, per Test-day

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.

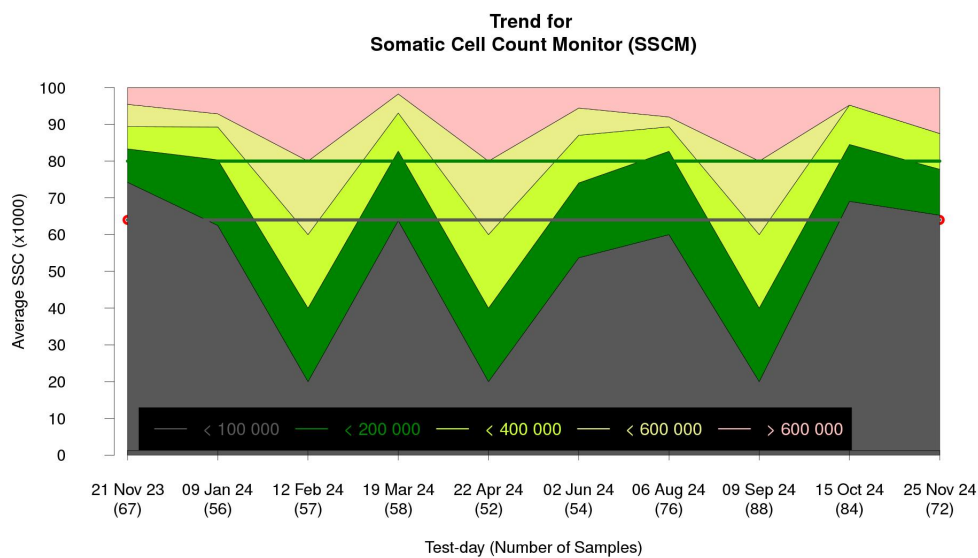


Figure 3: Somatic Cell Count (SCC) Monitor Trend

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.

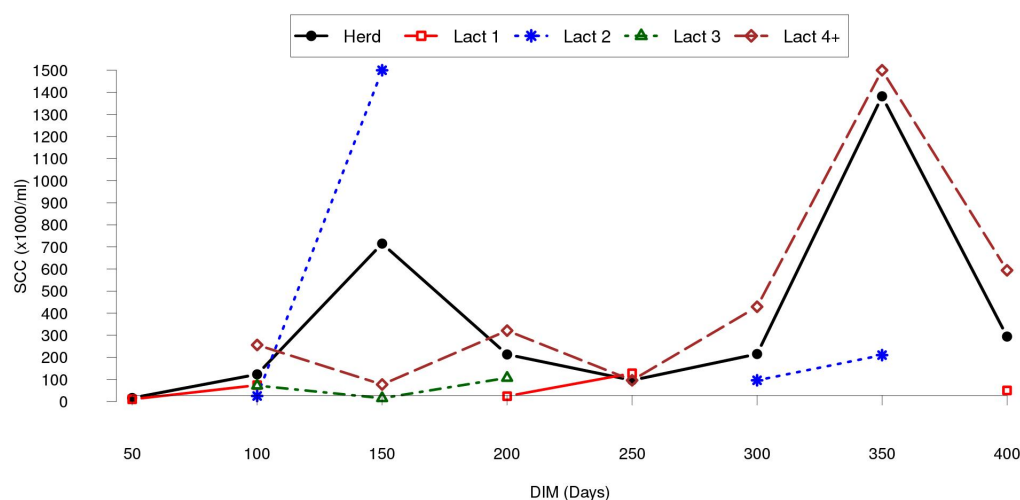


Figure 4: Average Somatic Cell Counts (SCC, x1000/ml) per Day In Milk (DIM)

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.

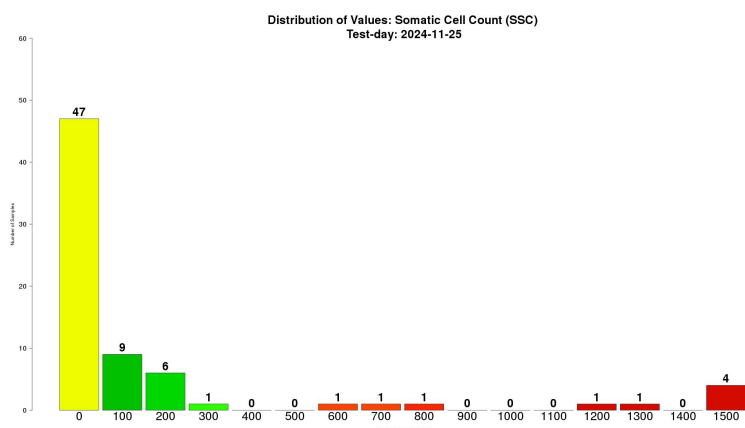


Figure 5: Somatic Cell Count (SCC) Distribution for Test-day (2024-11-25)

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 2024-11-25

SSC Levels	< 100k	100k - 200k	200k - 500k	500k - 800k	800k - 1 500k	> 1 500k
Number Cows	47	9	7	2	3	4
% Cows	65.3 %	12.5 %	9.7 %	2.8 %	4.2 %	5.6 %
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 2024-11-25 for the herd, was 391 000. 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
1533	DOT 9	9629	4.20	332	7	11
1951	ROMA 8	5396	4.56	104	2	18.2
1510	ZEN 17	1920	4.54	301	7	20.6
1519	DOT 5	1597	4.49	294	6	18.6
1628	LARIO 8	1277	4.58	552	5	22.4
1825	HYKA 10	885	4.57	167	5	26

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 2024-11-25	SCC 2024-10-15	SCC 2024-09-09	Production	DIM	Parity	Status
1533	DOT 9	9629	1733	-	11	332	7	N
1951	ROMA 8	5396	33	-	18.2	104	2	N
1510	ZEN 17	1920	364	-	20.6	301	7	R
1519	DOT 5	1597	1634	-	18.6	294	6	N
1919	HYKA 15	1338	208	-	24.4	187	4	N
1628	LARIO 8	1277	112	-	22.4	552	5	R
1825	HYKA 10	885	280	-	26	167	5	N
1304	MAYO 3	718	184	-	29.6	95	9	N
1414	ZEN 10	618	46	-	26.8	189	8	N
1418	HEK 1	396	326	-	25.2	356	6	N
2106	AMY 96	299	342	-	17.4	303	2	N
2017	ROMA 51	242	110	-	29.8	252	3	N
2048	VIOLA 82	228	114	-	15	305	2	N
2010	NOOK 44	226	34	-	11.8	161	3	N
1322	ZEN 4	224	192	-	26.4	240	9	N
2223	PUTT 177	209	96	-	22.2	237	1	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
2163	NESS 151	26.4	83	2	0.68	JSE

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

Cow ID	Name	Production	DIM	Parity	Prot % to Fat %
2313	LUPIN 230	15.2	12	1	1.07
1521	JESS 1	27.6	167	7	1.05
2303	JOJO 220	22.4	19	1	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
NEU 170043	HALEY 3	JSE	357	404	2	1239	696
NEU 180037	CADDY 22	JSE	418	418	1	1214	696

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
NEU 170043	HALEY 3	JSE	357	404	2	1239	-
NEU 180037	CADDY 22	JSE	418	418	1	1214	-
NEU 210023	DASH 111	JSE	-	-	-	691	22.6
2016	ROMA 50	JSE	-	-	-	645	19.8
1403	ZEN 8	JSE	424	425	6	625	-
NEU 190021	OVI 12	JSE	763	763	1	586	24.4
1628	LARIO 8	JSE	1481	924	2	558	22.4
NEU 190014	HYKA 14	JSE	-	-	-	552	-
NEU 160053	PUTT 9	JSE	540	417	4	547	13.6
2153	NESS 141	JSE	-	-	-	535	-
1741	PUTT 22	JSE	357	386	4	530	-
NEU 190046	ROMA 6	JSE	401	380	2	519	-
1701	PUTT 10	JSE	402	848	2	486	-
1832	ASH 7	JSE	387	405	3	464	-
NEU 190058	ROMA 12	JSE	436	420	2	458	27.2
NEU 200018	SONY 52	JSE	575	575	1	444	36
NEU 220001	CHARM 155	JSE	-	-	-	439	-
2145	DASH 133	JSE	-	-	-	436	-
1651	PUTT 7	JSE	518	448	4	429	-